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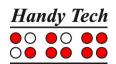
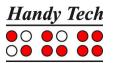


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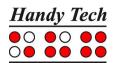
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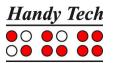
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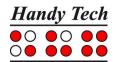
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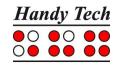




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General



1 General

Thank you for choosing the Actilino. Actilino was designed with the focus on easy and intuitive handling. Please take some time to read the Actilino user manual. It will help you to get the most out of every feature provided.

1.1 Preface

Before starting Actilino for the first time it is important to carefully read the safety instructions regarding the appropriate handling. You will find the safety instructions at the end of this manual.

Actilino is a new-generation Braille display with note-taking function. Its note-taking function as well as the universal connection options and the latest ATC technology all are patented by Help Tech GmbH.

With the 16 GB data storage, you can use your Actilino to take notes at anytime, anywhere. With the HTCom software package (included) the transfer of your notes to your PC and back into Actilino is easy and straightforward.

The Actilino comes with wireless *Bluetooth* technology allowing you to control a PC or Mobile assistant like a smart phone.

To use Actilino as a Braille display for a PC (Windows or Linux) an output program called screen reader is needed. It is available from your supplier. The screen reader program NVDA will be provided for free if needed.

If you have any ideas or suggestions to improve our product, please do not hesitate to contact your Handy Tech customer service representative or write to ideas@helptech.de. Your opinion is very important to us.

Enjoy using Actilino.

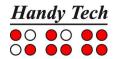
1.2 Actilino at a Glance

This chapter will help you familiarize yourself with your Actilino and its control elements. We recommend keeping the Actilino handy, so that you can actively follow the instructions in this chapter.

1.2.1 Top of the Unit

The first two keys on the front are the space keys. In the following description, the left space bar is called [SPCL] and the right space bar is called [SPCR]. If either the left or the right space bar can be used, they will be called [SPC].

Between the two space keys, you can find a control stick which greatly facilitates navigation within the internal mode, on mobile platforms such as Android or iOS, as well as on a connected PC or laptop. The control stick can be pushed into the four main directions, that



is, up, down, left or right. In this way, it allows you to navigate through menus and content. In addition, you can depress the control stick in the direction of the device to perform an action on whatever is selected.

Behind the space keys are 16 ergonomic Braille display elements with integrated cursor routing keys. The cursor routing (CR) keys which are integrated as part of each Braille cell enable you to place the cursor directly at the text position of this Braille cell.

The Triple Action Keys are to the left and right of the Braille display and flush with the Braille cells. You can activate the Triple Action keys at the top, in the centre and at the bottom.

The Triple Action Key functions are:

The left or right Triple Action Key's (Up) position also serves as a reading key to move backward within the text and will be referred to as [TLU] or [TRU] in the list below. The left or right Triple Action Key's (Down) position also serves as a reading key to move forward through the text and are referred to as [TLD] or [TRD] in the list below. In the event of the right as well as the left Triple Action Key (Up) can be pressed, it is called [TU]. If alternatively, the Triple Action Key left or right (Down) can be used, this is called [TD].

The centre position of either the left or the right Triple Action Key [TLC] and [TRC] can be used for additional functions.

In the list below, you will find an overview of the symbols used in this manual to represent the Triple Action Key settings:

Left Triple Action Key, up: [TLU]
Left Triple Action Key, center: [TLC]
Left Triple Action Key, down: [TLD]

Right Triple Action Key, up: [TRU] Right Triple Action Key, center: [TRC] Right Triple Action Key, down: [TRD]

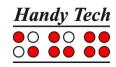
In all cases where there is a case for pressing [TU] and [TD] simultaneously, such as setting a mark within the Editor, you may press the keys at the top left [TLU] and bottom right [TRD] or at bottom left [TLD] and top right [TRU].

Located behind the Braille modules are eight ergonomically arranged function keys. These function keys are also used for Braille input. They correspond to the usual Braille keyboard layout and are, from the left to the right as follows:

7 3 2 1 4 5 6 8

The built-in microphone is located in between and above dot 1 and 4. It is recognizable by four small holes in the housing. The microphone can be used to make and receive phone calls via a connected smartphone.

General



1.2.2 Right side of the device

If you move along the right side of the housing towards the back, you will first feel the main power button. Located behind the power button is a USB A port for connecting a USB keyboard.

1.2.3 Left side of the device

On the left side of the housing, you can find a round headphone plug (3.5 mm) to connect a headphone or an external loudspeaker. Behind this headphone plug there is an oval and tactile USB-C port for PC connection or to connect a charger.

1.2.4 Front side of the device

On the left and right front side of the device there are corrugated openings where the stereo speakers are located. Directly next to the left speaker you can find the slot for the micro SD card.

Please do not remove the micro SD card at any time from the device while it is on. Data on the card can be damaged. Please turn the Actilino off, before you insert or remove the micro SD card.

1.2.5 Bottom of the device

The Actilino is equipped with a lithium-ion battery. The battery compartment is located in the middle of the Actilino. It can be opened from the Actilino's bottom. To open the battery compartment, drag the locking latch which you can find on the right side of the unit in direction of the center. Then you can remove the lid of the battery compartment and remove the battery. Please switch off the Actilino and disconnect all cables before you remove the battery.

We recommend not removing the battery at all, because after replacing the battery the capacity is not shown accurately. In order to show the right battery capacity, a complete and lengthy discharging and charging cycle for calibration is necessary.

1.3 Conventions Used in This Manual

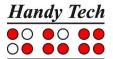
In this manual, the following conventions are used for inputs and outputs on the Actilino and on the PC:

Single keystrokes on Actilino: [Key1] e.g. [TLU]
Key/dot combination on Actilino: [SPC + 1 2]

Display on the Actilino modules: 'Display Text' such as 'File'

Single keystrokes on PC: {Key}, e.g. {ENTER}
Text input on PC: {input text}, e.g. {HTCOM}

Text output on PC: "output text" such as "Done"



2 Installation

This section contains helpful information about how to install your Actilino. Please read it carefully to prevent difficulties while setting up.

2.1 Package Contents

Please verify that your package contains all of the parts listed below. If one of the components is missing or damaged, please contact us in order to request the missing part or a replacement.

You should find enclosed the following:

- Actilino
- 16 GB micro SD card (already inserted)
- Carrying case
- 1 USB-C cable (about 100cm)
- 1 lithium ion battery 2800 mAh (already inserted)
- 1 power adapter 5 Volt for charging the battery
- Software Package with drivers for screen readers and HTCom (USB StartStick)
- User manual (USB StartStick)
- User manual for file transfer with HTCom (USB StartStick)
- Quick Reference in Braille

2.2 Software Installation

In order to use the Actilino as a Braille display for your computer, you need the corresponding Braille display driver for your screen reader. You will also need the data transfer program HTCom for exchanging files between PC and Actilino.

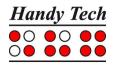
To install the required software, plug the included USB memory stick with the inscription StartStick into a free USB port on your PC. The StartStick with the HTStart program is a USB stick that contains all the relevant drivers and documents that you need to operate your Handy Tech Braille display. In addition, it contains the free NVDA screen reader, so that you can operate the PC immediately, even if no screen reader (JAWS or Supernova) is installed.

After plugging the StartStick into your PC, run the start.exe program from the root directory. If a screen reader is already installed, it is available for use. Otherwise, the supplied screen reader NVDA provides access via speech output and Braille support.

HTStart recognizes which Handy Tech display is connected to your PC and automatically makes the pre-selection for the installation of all the necessary drivers and software components. Depending on the security settings of your operating system, you may be prompted to allow the execution of the program HTStart. To enable HTStart to determine and display the installed screen reader, your consent is required. Please allow the execution of HTStart because otherwise the use of the program is not possible.

Once you have selected a screen reader, the HTStart window appears in which all supported Handy Tech products are listed. The national language is pre-selected based on your

Installation



Windows settings. However, in the selection list, you can select another language. In the product list, you find the manuals in the selected language. If the manual in the selected language is not available, the English manual appears instead.

You can choose the following components of the software, to be installed:

- JAWS driver: latest Braille display driver for JAWS for Windows
- Supernova driver: latest Braille display driver for Supernova
- Actilino Firmware and Manuals: for updating the internal functions of your Actilino and this user manual.
- HTCom (Handy Tech Communication Software): communication program for file transfer between PC and Actilino

We recommend that you use the default setting for the installation. All required software components will be installed and a link for HTCom on the Desktop will be created. After completion of the installation program you will find a group named "Handy Tech" in programs in the start menu. Here you find the following subfolders:

- BrailleDriver: here you find the key settings of your Actilino for your screen reader.
- Actilino followed by the version number: for version 3.0 it is for example "Actilino 3.0".
 Here you find this user manual, the uninstall program, the program for updating the firmware and important remarks.
- HTCom: here you find the description of HTCom, the program HTCom itself and the uninstall program.

After installing successfully, you can connect your Actilino to your computer. In the installation folder of your Actilino firmware you will find the following subfolders (when installed completely):

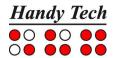
- Braille tables: contains the various Braille character sets for different country versions.
- Firmware: contains four files for the internal programming of your Actilino as well as system files.
- Manuals: includes this user manual and important information
- KeyboardLayouts: contains different keyboard files for different countries.
- Uninstall: contains the uninstall program for this software.

Besides the start menu you can start HTCom via the link on your desktop or via the pre-set key combination {Ctrl+Shift+H}. A detailed description of how to use HTCom you will find in the separate user manual "File transfer between PC and Actilino" which can be found in the subfolder "HTCom".

2.3 Connecting the Power Supply

The power supply included in your package is used to recharge the battery and for providing power to the Actilino. The Actilino can be used without restrictions even while the battery is recharging.

When connecting the power supply, please connect the small USB-C plug into the USB port on the left side of the housing first. It does not matter which way round the plug is connected. Now you can connect the power supply to the flat end of the USB cable and plug it into an



easily accessible wall outlet. When disconnecting the power supply cable, please reverse the order of steps above.

If you plug in the power supply while the Actilino is switched on, a delayed signal tone indicates that the device is no longer running on battery.

Please note that during the recharging process the Actilino cannot be connected to the PC via USB. If the Actilino is connected to the PC via USB, the battery is also charged with a smaller current. You can deselect this function within the **(O)ptions** menu to e.g. conserve the laptop's battery during a trip.

2.4 Connecting the Interface Cable

Your Actilino can communicate with the PC either via USB interface or through the wireless Bluetooth interface. If the Actilino is used as a medical device, the connected PC needs to comply with the medical device directive or needs to be additionally grounded or needs to be connected via a separation transformer.

Please make sure, that you have installed the enclosed software package, as described in chapter 2.2 before you connect the USB cable.

To connect the Braille display to the PC via the USB interface, please identify the enclosed USB interface cable first. The USB interface cable features a small plug on one end. The other end features a flat plug. Now connect the smaller USB-C plug into the port on the left side of your Actilino. It does not matter which way round the plug was connected. The flat plug is then plugged into the PC's USB port.

When both the Braille display and the PC have been turned on, the Braille display will automatically be recognized by USB enabled operating systems. When connecting the USB cable while the device is off, you briefly get a message indicating the battery is charging and the Actilino turns off again.

2.5 Connecting an external USB keyboard

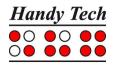
You can also connect a standard USB keyboard to your Actilino. This is accomplished by plugging in the USB cable of the USB keyboard in the Actilino's USB Type A port on the right side of the housing. For more information please refer to chapter 6 External Keyboard.

2.6 The Carrying Case

On the right side of the case are openings for the main power button and the USB port, on the left side for the headset and the USB connection, so that the Actilino can be operated inside its case. To completely open the carrying case, open the top cover. All control elements are now accessible.

When you replace the Actilino in the carrying case, please make sure that you slide in the device from the back, so that the corner of the carrying case are covering the device. When you push down the Actilino into the carrying case it needs to be covered from the backside. Magnets are placed in the center of the backside of the carrying and inside the Actilino to prevents its sliding out from the carrying case.

Installation



2.7 Installation of the Bluetooth Tie-In

Because your Actilino features a Bluetooth transmission module, you can also establish a wireless connection between the Actilino and three different devices at the same time (e.g. computer, smart phone, tablet), if they are equipped with wireless Bluetooth technology. The Actilino automatically switches to the currently active data source, i.e. to one of the up to three Bluetooth connections that was last active, or to the USB connection to the PC. When switching, the Bluetooth device name is displayed, if available. Otherwise "Bluetooth device" will be displayed, followed by a number from 1 to 3.

If no Bluetooth or USB connection is active, the Actilino automatically switches to internal mode. If the Actilino is connected to an iPhone via Bluetooth, for example, and if it changes to the lock screen, Actilino automatically switches to internal mode. You are then back to the same location in the internal mode from which you switched to the Bluetooth connection, e.g. in a note. When the iPhone is unlocked, the Actilino is automatically reconnected immediately.

You can manually circle between the USB port and the three Bluetooth ports by pressing [SPC + 4 5 8]. If there is only one active connection, you cannot switch. When plug-in an USB cable into a PC, it switches automatically to the USB connection.

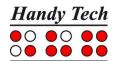
Bluetooth is automatically active when you turn on the Actilino. If you do not set up a Bluetooth connection within 15 minutes, the Bluetooth interface automatically turns off. When the Actilino wakes up from sleep mode, Bluetooth will be on again for 15 minutes. The wireless transmission radius is approximately 10 meters (10 yards or 33 feet).

2.7.1 Bluetooth-PC Tie-In

- 1. Please make sure that the Actilino is switched on and Bluetooth is enabled. For this purpose, it may be necessary to switch the device off and on again.
- 2. Select "Bluetooth Devices" from the control panel or from your system tray and press the context menu key.
- 3. Select the "new device/connection" item
- 4. "Add Bluetooth Device Wizard" will appear.
- 5. All detected Bluetooth devices will be listed. Select the Actilino from the list and press "Next".
- 6. The Actilino will ask whether the pairing should be done with the message **"Pair y/n"**. Confirm the message by pressing [y] or the CR key above the y. If you reject the pairing process, a connection to the PC can only be made after switching the Actilino off and on again.
- 7. Now the pairing will be done, and the needed drivers will be installed. Please wait a moment. Please confirm by pressing "Finish". The Actilino is ready to use when all the needed drivers have been successfully installed.

Your Actilino now has a wireless connection to the PC and you can utilize all of its functions, as if it were connected via the USB cable.

Note: If you move the Actilino beyond the Bluetooth connection's communication radius (10 meters/yards), the connection to the PC will be interrupted. The connection will automatically be re-established by Handy Tech's Braille device driver once you move back within range. For this you need to have installed the latest Braille display driver (see chapter 2.2).



2.7.2 Bluetooth Apple iOS Device Tie-In

Mobile Apple devices, such as the iPhone or iPad, include the screen reader VoiceOver by default, which enables blind people to operate the devices by speech and Braille output. In order to connect the Actilino via Bluetooth with an Apple device, you have to activate VoiceOver first. Please follow these steps:

- 1. Please make sure that the Actilino is turned on and Bluetooth is enabled. For this purpose, it may be necessary to switch the device off and on again.
- 2. Open "Settings" on the home screen of your iOS device.
- 3. Choose Accessibility from the "Settings" page.
- 4. Turn VoiceOver on.
- 5. Choose "Braille" on the VoiceOver page.
- 6. If Bluetooth is off, the iOS device will remind you and you should turn it on now.
- 7. The iOS device is now searching for Bluetooth Braille displays. Please choose the Actilino from the list.
- 8. The Actilino will ask whether the pairing should be done with the message "Pair y/n". Confirm the message by pressing [y] or the CR key above the y. If you reject the pairing process, a connection to the Apple device can only be made after switching the Actilino off and on again.
- 9. The Bluetooth connection will be established, and you can read the text from the iOS device on the Braille display.

<u>Note:</u> if the Bluetooth connection was interrupted because the Actilino or the Apple device was turned off or in sleep mode, please activate the Actilino first. The connection will be reestablished automatically, when turning on the Apple device.

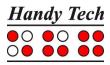
We recommend setting the Accessibility Shortcut (3 time pressing the home key) to VoiceOver. To define the Accessibility Shortcut, go to settings / Accessibility all the way down to Accessibility Shortcut.

2.7.3 Bluetooth-Android Device Tie-In

Android devices, such as the Samsung Galaxy Sx, include the screen reader TalkBack by default, which enables blind people to operate the devices by speech. This is pre-installed on most Android devices and can be activated under Settings>Accessibility. For Braille support an additional App, called BrailleBack, is needed which you can download and install via Play Store. In order to connect the Actilino via Bluetooth with an Android device, please follow these steps:

- 1. Please make sure that the Actilino is turned on and Bluetooth is enabled. For this purpose, it may be necessary to switch the device off and on again.
- 2. Activate Bluetooth on the Android device and search for new devices.
- 3. After some seconds, the Actilino will be found and listed in the device list.
- 4. Start the pairing process by double tapping on the Actilino's name displayed by the Android device.
- 5. The Actilino will ask whether the pairing should be done with the message "Pair y/n". Confirm the message by pressing [y] or the CR key above the y. If you reject the pairing process, a connection to the Android device can only be made after switching the Actilino off and on again.
- 6. If the paring was successful, you'll hear the message "device connected".
- 7. Open BrailleBack on the Android device. You can find it under Settings>Accessibility.

Installation

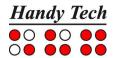


8. The Bluetooth connection will be established, and you can read the text from the Android device on the Braille display.

Note: If the connection was interrupted because you have turned off or put into sleep mode the Actilino and/or the Android device, please turn on/wake up the Actilino first.

2.8 Technical Specifications

- 16 concave piezoelectric Braille cells
- 16 cursor routing keys
- 2 Triple Action Keys
- 8 function keys
- 2 space keys
- 1 control stick
- 1 USB-A port (for keyboard)
- 1 USB-C port (for PC or charger)
- 16 GB micro SD card
- Wireless Bluetooth technology
- Polyphonic Sound chip
- Mini Loudspeaker
- Mini Microphone
- 1 plug for loudspeaker 3.5 mm
- Lithium ion battery 2800 mAh
- Battery duration ca. 30 hours;
- Quick charge circuitry (6 hours)
- Measurements: 16.6 cm width, 10.9 cm depth, 2.9 cm high, (6.5" width, 4.3" depth, 1.1" high)
- Weight 420 gr, (0,92 lb)



3 Start Up

3.1 Version Information

As of this Section, all common characteristics of the Actilino will be described. This information applies from firmware Version 3.0 of your Actilino.

3.2 Turning the Power On

Press the on/off button to turn the Actilino on. You can now work independent of a power source, because the battery is fully charged. You will hear a sound signal and the following start up message will be displayed on the Braille display:

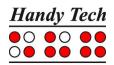
'actilinoxbHH:MM?'

- The start message of the Actilino provides an overview of some information concerning the device and shows the time. It is constructed according to this scheme: The model name of the device "actilino" (cells 1-8).
- Charging indicator (cell 9): The battery charge status is displayed in the form of a
 bar whose height corresponds to one of the five charging states. If no point is set,
 this corresponds to the "empty" charge state. When the battery charge level is full,
 all eight points are set. When loading, the charge indicator grows in steps from
 below to the current charge state. When charging, the charging indicator moves
 faster. After switching on the device, it takes about 10 seconds for this information
 to be available.
- Bluetooth status (cell 10): This cell indicates whether Bluetooth is switched on and, if so, whether Bluetooth connections exist. If Bluetooth is off, this cell is empty. A small b indicates that Bluetooth is on. If a large B is shown, there is currently a Bluetooth connection. If point 8 is set, two Bluetooth connections exist. If dot 6 is set additionally, there will be three Bluetooth connections.
- Time (cells 11-15): The clock of the Actilino is displayed in 24-hour format and without seconds. The colon between hours and minutes flashes every second.
- Call up the support information (cell 16): After pressing the cursor routing key above
 the Braille cell 16, a compact information is displayed which can be important for
 support purposes. To return to the start message, press [TLC] [TRC].

The abbreviations in the support information have the following meaning:

- FW ("firmware"): version of the installed firmware
- SN ("serial number"):the Actilino's serial number
- NSRV ("next service"): month and year of the next due maintenance
- LSRV ("last service"): month and year of last maintenance
- T ("tasks"): Performed during the last maintenance
 - CPS ("caps"): caps exchanged
 - PNCLN ("pins cleaned"): Pins cleaned

Start Up



- o PNRPL ("pins replaced"): pins exchanged
- LRPR ("last repair"): month and year of last repair
- DLV ("delivery"): month and year of delivery

If any of this information is not available, there is "N / A" ("not available") behind the colon.

The high-pitched beep, followed by a start-up sound at start up, indicates that you are now in work mode. As soon as you hear the start-up sound you can begin working.

The Actilino is not fully ready for operation until the start-up sound occurs. The device can only begin exchanging data or reacting to any other external events, such as keystrokes, after the start-up sound.

You can change the start-up sound by yourself using **(M)usikBraille** for composing your own melody. Please refer to chapter 5.1.6(M)usikBraille.

You are now in the Actilino's main menu, which allows you to activate its various functions.

Should you receive a message beginning with the words 'FER:', 'Warning' or 'WRN:' instead of the work mode start up string shown above, then the Actilino's software has become corrupted. You will find detailed information and trouble-shooting tips in the sections on firmware updates and error messages.

Now, before you can finally get started, we would like to familiarize you with some of the basic concepts pertaining to your Actilino.

3.3 Basic Operation

3.3.1 Chords

The Actilino's keyboard is very easy to use. The keystroke functions are not activated until the key is released. If a character is composed of several keys, it will be created after releasing all keys.

In order to make functions available to you which require their own function keys on standard keyboards, while also providing efficiency of operation, we have introduced the so-called chord functions. Chords are letters or Braille dots that are used in combination with the space bar. For example, in the Editor you can use Chord-i [SPC+2 4] to toggle between insert and overwrite mode.

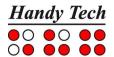
With Chord commands, it is enough to release one key in order to activate the function. When entering characters, all keys need to be released.

You will find a list of all available key combinations in chapter 12.

3.3.2 Signal Tones

The Actilino utilizes various signal tones to indicate its status or to alert you to prompts or possible errors.

 Start-up sound: This is a tone signal which sounds during start-up. When the startup sound is preceded by a very short, high tone followed by a pause, then the Actilino is in work mode.



- 2. Warning signal: This consists of a simple short sound and may sound, for example, when you have reached the beginning or the end of a text in the Editor or when you are cancelling a search.
- 3. Error signal: These are three consecutive signals with an ascending tone pitch, which may be emitted, for example, before you delete a file.

<u>Note:</u> You can specify which types of acoustic signals you want the Actilino to emit (see chapter 5.1.12 and 5.1.12.11). In this manual, the assumption is that all signal tones are switched on. This is also the factory default.

3.3.3 System Messages

The Actilino will display messages to indicate the successful completion of an operation or to alert you to possible operating errors. If the message is an error message or an important message, a signal tone will also sound. The signal sounds can be switched off in the **(O)ptions** menu (see chapter 5.1.12.11 (T)one signals).

We recommend carefully reviewing these messages before continuing with your work. They frequently contain instructions on how to proceed.

Most error messages will be in the selected system language however, there are some system messages that are only provided in English. In regard to these messages, all messages beginning with 'fatal', 'fer:', 'error' or 'wrn:' should be attended to.

After you have read the message, you can exit by pressing [TLC] which in most cases will return you to the place from which the message was initiated. If the message text does not fit on the Braille display, you can scroll through it by means of the [TD] and [TU] keys. In chapter 13 you will find a list of the most important messages with explanations.

3.3.4 Checkboxes

Checkboxes are switches that can be in either an "on" or "off" state. A checkbox consists of a symbol indicating its state and a designation. The symbol "[X]" indicates that the checkbox is "on" or active, whereas "[]" is an inactive or "off" checkbox.

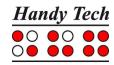
Toggling the state of the checkbox between on and off is accomplished by pressing [SPC] or [TRC]: the state is toggled upon each keystroke. Alternatively, you can also press the cursor routing key above the checkbox to toggle it. As soon as you move on to a new menu item, the last state indicated by the checkbox remains in force. However, the settings are not permanently saved until the '(O)ptions' menu is closed.

Checkboxes are used for controlling your Actilino's functions and are found in the **(O)ptions** menu. For example, you can choose either 6-dot or 8-dot Braille this way.

Note:

If the Actilino is turned off without having closed the **(O)ptions** menu, the last changes to be entered will be lost. The new settings are saved only upon exiting the **(O)ptions** menu!

Start Up



3.3.5 Radio Buttons (1 of x)

Radio buttons are similar to incremental dials, e.g. from 0 to 10. They are groups of buttons that can be set to either an on or off state, of which only one can be selected at any given time.

A radio button consists of a symbol indicating its state and a designation. The symbol "(X)" indicates that the button is active, whereas "()" represents an inactive or "off" button. A radio button is selected by pressing [SPC] or [TRC]. Alternatively, you can also press the cursor routing key above the radio button to toggle it. An example is the frequency setting for acoustic alerts, which can be set to one of several levels.

Note:

As noted above, any new settings are saved only upon exiting the **(O)ptions** menu!

3.3.6 System Files

The Actilino's firmware requires its own files for keeping track of settings and for saving information. These system files always have the extension "HSF" (Handy Tech System File) and will be saved in the HTSYS folder and its subfolder LANGUAGE on the microSD card. Some examples of system files are the message file (English.HSF) and the layout file for the external keyboard (English_KBDLYOUT.HSF).

By default, system files are not displayed. However, the display of system files can be activated via the **(O)ptions** menu (see chapter 5.1.12.4).

3.3.7 Energy Saving Features

Since the Actilino is battery operated, it is designed specifically for efficiency in energy consumption. Whenever possible, various components of the Actilino are deactivated in order to conserve energy.

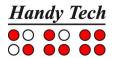
If no key is pressed on the Actilino for several minutes, it will enter sleep mode. In sleep mode, the Braille display is turned off and some of the electronic modules are also deactivated. As soon as any key is pressed, the Actilino "wakes up" within a fraction of a second and will be fully operational. You will recognize this because the tactile pins will be pushed back up.

Further explanations concerning the set-up of the energy saving features are contained in chapter 5.1.12.16 sta(N)dby.

3.3.8 The SAVE Mode

In SAVE Mode, the Actilino can only be operated as a Braille display. The SAVE Mode is comparable to the save mode in Windows. To get into SAVE Mode, press the on/off Button for more than 5 seconds or take out the micro SD card before turning the unit on. Instead of the start-up sound you will hear a different sound, and on the Braille display you can read: 'actilino S 1.3'

The number at the end of the string is the version of the Save Mode. To get back into work mode, just switch the Actilino off/on again (with inserted micro SD card).



4 Quick Start

4.1 The Actilino as Braille Display

In order to operate the Actilino as a Braille display under Windows, you need a special program called a screen reader to control the display, which is not included with the Actilino itself. To use the Actilino as a Braille display connect the USB cable to the USB port on your PC or use the wireless Bluetooth connection.

Please make sure that your Actilino is properly connected and switched on before starting up the screen reader program, because otherwise the screen reader will not be able to detect it. As a rule, the screen reader will display the selected position within the active window on the Braille display. For example, if you are moving through a menu, the selected menu item is displayed. The reading keys [TD] and [TU] allow you to move through text. In word processing programs, such as Microsoft Word, you can also position the cursor with the cursor routing keys. In addition, the [CR] keys will also allow you to activate menu items or functions directly (e.g. when you are prompted for a yes or no answer with 'y/n', pressing the [CR] key above the "y" has the same effect as entering "y").

The screen reader program converts the text and graphic contents of the Windows screen into speech and Braille. Generally, the computer's built-in sound card is employed for the speech output function. The display of Braille is achieved with the help of your Actilino, after the screen display information has been forwarded from the screen reader to the Braille display. All standard screen readers are compatible with Handy Tech's Actilino. During the installation of the screen reader software, all you need to do is to select Handy Tech. The Braille display then automatically adjusts correctly to your Actilino.

When starting your screen reader, the first time, a small start-up window appears which displays the name of the Braille system detected by the program, the interface used for communication and the country currently selected. The various screen reader program functions are assigned to specific keys on your Actilino. How to operate your Actilino as a Braille display using JAWS for Windows is described in Section 7.1. A summary of the essential functions of Supernova can be found in Section 7.2 and for VoiceOver in Section 7.3.

4.2 How to use the Actilino to make a call with an iPhone

Using Actilino's audio connection it is possible to make phone calls. To record your voice the Actilino uses its inbuilt microphone at the top center. This microphone can also be used with Skype, FaceTime and WhatsApp.

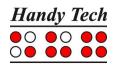
It is necessary to establish the Bluetooth connection with the iPhone first, as described in chapter 2.7.2. To start the audio function, press [SPC + 2 5 7 8]. A tone signal will sound once the audio receiver was switched on.

<u>Important:</u> switch the iPhone into the lock screen using the button on the edge of the case and unlock it again so that it is able to recognize the new audio connection.

The Actilino is now ready to make and receive phone calls and to listen to music.

You can adjust the volume anytime and anywhere by holding down the on/off button and pressing [TU] for louder or [TD] for softer. This volume setting applies to all audio outputs of the Actilino, from the player, to Music Braille and the beeps.

Quick Start



With VoiceOver on an incoming call will be shown as "Accept Button" on the Braille display. Press any CR-key above the text to accept the call.

Talk in a normal tone of voice and at a distance of about 40 cm to the microphone. To finish the phone call press [SPC + 1 5 6] (Chord 5). To learn more, please also read 7.3 VoiceOver: Screen reader for Apple iOS Devices.

In case the audio connection does break off it can be established by pressing [SPC + 2 5 7 8] twice. The re-connection via Bluetooth to the Actilino will be more reliable once the setting "Raise to Wake" on your iPhone at Settings Display & Brightness is deactivated.

If you cannot establish an audio connection automatically, you may need to pair up the audio Bluetooth interface with the iPhone via its Bluetooth settings the first time you use it.

To do this, select "Bluetooth" in the iPhone settings. Select the device "POR1007BT" or "Actilino Audio". After successful pairing you will hear a short confirmation tone.

4.3 Making calls with an Android phone via the Actilino

Using Actilino's audio connection it is also possible to make phone calls. For this purpose, the microphone installed in the middle of the top is used. You can also use the microphone for Skype or WhatsApp.

First you have to establish a Bluetooth connection with the Android phone as described in chapter 2.7.3. Press [SPC + 2 5 7 8] to activate the audio interface. A switch-on melody sounds, which signals that the built-in audio receiver has been switched on

<u>Important:</u> Open the Android's Bluetooth settings and select the Actilino from the list of paired devices. When you open the Actilino settings, please activate the "Audio" setting. Only "Calls" is activated by default.

Now, in addition to Braille output, the Actilino can also be used as an audio device for making phone calls or listening to music.

You can adjust the volume anytime and anywhere by holding down the on/off button and pressing [TU] for louder or [TD] for softer. This volume setting applies to all audio outputs of the Actilino, from the player, to Music Braille and the beeps.

Talk in a normal tone of voice and at a distance of about 40 cm to the microphone. If the audio connection to the Actilino is lost, you can restore it by pressing [SPC + 2 5 7 8] twice.

If you cannot establish an automatic audio connection, you may need to pair up with a specific audio device via its Bluetooth settings the first time you use it.

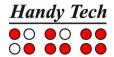
To do this, select "Bluetooth" in the Android's settings. Select the device "POR1007BT" or "Actilino Audio". After pairing successfully, you will hear a short confirmation tone.

4.4 The Actilino as Notepad

4.4.1 Navigating the Menu

Turn the Actilino on and navigate through the menu using the [TU] and [TD] keys. Pressing [TRC] or the [CR] keys activates functions or opens submenus; by pressing [TLC] you can close the functions and submenus. [SPC+1 2 3] or [SPC+4 5 6] sends you to the first or last item on the menu, respectively. The topmost menu level contains a single entry entitled "menu". This entry features all the information also seen on the start message.

A detailed description of the menu items is contained in chapter 5.1.



4.4.2 Context sensitive help

Pressing the Cursor Routing key above the question mark at the end of the Braille display (Braille cell 16) opens the respective manual chapter as read only file in the Editor. As usual, the help text can be closed by [TLC] or [SPC + 1 4] (Chord e) or by pressing {Ctrl + e} or {Alt + F4} on the external keyboard. These help texts are available for most system languages. If not, the English text is displayed.

4.4.3 Writing a Note

To write a note, begin by pressing [TRC] as soon as the menu item '(F)ile' is displayed. 'New file' will be displayed. If you press [TRC] now, a new file will be opened. The cursor, represented by the blinking dots 7 and 8, appears on the first space of the Braille display. You can now begin writing the note. If you make a mistake, activate the backspace key by pressing [SPC+1 2]. The cursor routing keys are used for easy cursor placement.

[SPC+4 5] deletes the character at the current cursor position. [SPC+2 4] is used to toggle between insert and overwrite mode. A low beep indicates that overwrite mode is active, while a high beep indicates insert mode. Also, the cursor appears filled in (all 8 dots) and blinking while in overwrite mode.

You can read previously entered text with the reading keys [TD] for forward and [TU] for backward without moving the cursor. If you want to return to the position of the cursor, simply press the [TLC] key. It is also possible to move the cursor to your current reading position by means of the cursor routing keys.

Additional editing functions, such as Search and Replace, are described in chapter 5.2.

4.4.4 Saving a Note

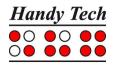
You have several options for saving your note:

- 1. To save the current status without closing the file:
 - Enter [SPC+2 3 4] (chord s). The message 'Save file: ' appears, followed by the
 default file name. The Editor suggests an appropriate filename for unnamed files
 based on the first 20 characters of the first line. The cursor is positioned on the first
 character of the file name.
 - You may either accept the default file name, overwrite it by entering a name of your choice or edit the name easily by navigating the cursor and using the delete function.
 If you enter any character without first moving the cursor, the default file name will be overwritten.
 - To save the file, press the [TRC] key. If a file with that name exists already, you will be notified and can then overwrite that file.
- 2. To save the current file and then close it:
 - Enter [SPC+1 5] (chord e). The procedure for saving the file is the same as the steps described above in 1.
 - When the file has been saved, it is also closed. Unless you have other files open, you will return to the main menu at menu item '(F)ile'.

4.4.5 Opening a File

To open the last previously closed file, activate the menu item 'Previous file' in the '(F)ile' menu. This will open the most recently closed file, with the cursor at the position it was in when the file was closed.

Quick Start



To open another existing file, continue navigating through the **(F)ile** menu beyond the items **'New file'** and **'Previous file'**. A list of files in alphabetical order will be compiled and displayed.

Select the desired file using [TD] and [TU] and then press [TRC]. You can then choose either '(E)dit', '(V)iew', 'c(U)t', '(C)opy' '(D)elete', '(R)ename' or 'show file attri(B)utes'. If you select '(E)dit', the file will open within the Editor.

4.4.6 Transferring data between the Actilino and a PC

The Actilino offers three different options for file transfer:

- 1) via the file transfer program HTCom
- 2) via the Windows function "external mass storage", whereby the Actilino is treated like a drive by the computer
- 3) via the patented function "Direct Transfer" directly by the Editor of the Actilino into an input field of a connected device.

In general, we recommend using the HTCom program as it transfers different file formats into a format which can be read by the Actilino. Additionally, HTCom offers a Grade 2 translation and back translation. If you copy, for example, a word document in the dock format using the Windows Explorer to the Actilino, it cannot be opened by the Actilino. If you transfer this document using HTCom, the textual information will be transferred and be archived with the same name. This document can be read and further edited with the internal Editor of the Actilino.

The file transfer program HTCom

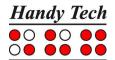
Text files, message files and Braille character sets can be best transferred to the Actilino with the aid of the HTCom program, which can be found in the package content. This program can transfer files from a PC to the Actilino via the USB interface and can also transfer files from the Actilino to a PC.

In addition to HTCom you can also transfer files or text blocks from the Editor of the Actilino directly to a connected device (PC or mobile device). Please refer to chapter 5.2.20 Quick transfer of files or blocks of text to a connected device (SPC + 1 5 7 = Chord E).

Various file formats can be transferred to the Actilino with HTCom. When transferring files in the following formats, HTCom extracts the text information:

- Word format *.doc and *.docx
- HTML format *.htm, *.html, *.php, *.php3, *.asp and *.jsp (Internet)
- Text format *.txt, *.java, *.ini, *.hpp, *.h, *.cpp, *.c
- RTF format *.rtf (Rich Text Format)

Optionally, the text information can be converted into Grade 2 during the transfer operation. Files in formats other than those shown above (such as *.exe files) are transferred unchanged to the Actilino. The Actilino can thus be used for the transport of data. However, it should be noted that the transfer of large files to and from the Actilino takes much longer than the transfer to and from a memory stick.



HTCom runs under the operating systems WINDOWS Vista, 7 / 8 / 8.1 and 10. A special version of HTCom is available for the operating system LINUX and we will gladly send you a copy on request.

Please read the enclosed operating instructions for the transfer of data between a Braille system and a PC. The data-transfer functions of HTCom are described briefly in the following sections.

4.4.6.1 Transferring a File using HTCom from the Actilino to the PC

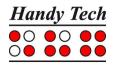
Start up the HTCom program on your PC then select the menu item "Receive file" by means of the tab key or the arrow keys, followed by the Enter key.

The PC will show all of the files on your Actilino. You can select one or more files for the file transfer. Use the tab key to move to the input field that allows you to specify where the transmitted files should be saved. Once you confirm this dialog by clicking OK the transfer will start. During the file transfer, the Actilino displays the following: 'Transmitted m of n bytes', where m represents the number of bytes already transmitted, n the size of the entire file. Once all the files have been transferred to the PC, you can close HTCom.

4.4.6.2 Transferring a File using HTCom from the PC to the Actilino

Start the HTCom program on your PC. Select the menu item "Send file" using the tab key or the arrow keys, then press the Enter key. A dialog for choosing the files you want to transmit opens. When you have selected the file you wish to transmit, press the Enter key. Now another dialog opens, and you can specify any desired conversion into grade two Braille. When you press the Enter key this time, the file will be transmitted.

When the file transfer is complete, you will again be in HTCom's main menu. The transferred file will be found under the '(F)ile' menu on the Actilino. You can now open it from here as described above and continue to edit.



5 Operation of the Actilino

5.1 The Menu System

The menu system is structured hierarchically, containing submenus and functions. In addition, the menu system has its own intelligence, so that only those menu items currently available are displayed.

In addition to the keys described in chapter 12, there are also shortcut keys, known as "hotkeys." These permits direct access to menu items within a menu level, without having to navigate clumsily through the entire menu with [TD] and [TU]. A hotkey is one letter of the menu item. It is spelled as a capital letter, but it may also have additional emphasis added. Not only submenus, but functions and checkboxes as well may be activated using hotkeys. Furthermore, you can configure your Actilino such that these objects are not only selected, but also activated by pressing the hotkey.

In the following sections, the menu items as well as their sub-items are described in detail, with the hotkeys enclosed in round brackets. If there is no letter indicated within brackets, then there is currently no hotkey available for that menu item.

Please note:

The hotkeys permit instant access to items within the same menu level; they do not let you move from one menu level to another. Therefore, you cannot access, e.g. the battery voltage indicator from inside the **(F)ile** menu, instead, you have to return to the main menu first then navigate via hotkeys through the menu levels until you have reached the menu item **(V)oltage**.

5.1.1 menu

The topmost level of the menu contains a single entry entitled "**menu**". This entry features all the information also seen on the start-up message: Battery status, Bluetooth status, current time and a function to access the condensed support information. You can reach this entry by pressing [TLC] or {Esc} when on any of the menu items between **(F)ile** and **(O)ptions**. Pressing [TRC] or {Enter} returns to the first menu item "**(F)ile**".

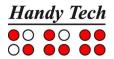
5.1.2 (F)ile

In the **(F)ile** menu, you can choose to create or select a file or folder and to open, edit, read, rename, copy, move or delete it.

In order to copy, move or delete objects, you can also select more than one object. Press [SPC + 2 4] (Chord i) {Insert}, the selected object will be marked with dot 7 and 8. To unmark an object, press, [SPC + 2 4] (Chord i) {Insert} again. To mark all files and folders within the current folder, press [SPC + 1 7] (Chord a) {Ctrl+a}.

5.1.2.1 New file

This menu item creates a new file. The file will be empty and can be edited. The cursor is located at the first Braille position.



5.1.2.2 Previous file

This command opens the last file that was closed by the Editor. After opening the file, the cursor will appear at the same position it was in when the file was closed. The file automatically opens in the same editing mode in which it was saved.

Please Note:

This menu item is dynamic and will appear only if you have already edited a file in the Editor and saved it. The name of the last edited file will remain stored in your Actilino even when it is turned off.

5.1.2.3 New directory

With the function "**New directory**" you can create folders. You have the opportunity to store your documents into different folders to make it easier to find them again. After calling the "**New directory**" function, Actilino proposes "**untitled**" which you can override. A folder name cannot be longer than 255 characters and may not contain any special characters (:*?"<>|+,;=[]/\). The entire path of the folder including its name may not be longer than 259 characters. A folder is marked with a trailing slash.

5.1.2.4 File and Folder list

If you move beyond the menu item 'New directory', a list of the existing files and folders will be displayed in alphabetical order. First the folders, then the files are listed. You can change this setting in the options (see chapter 5.1.12.5 show f(O)lders first). You can recognize a folder by the trailing slash. Files usually end in a three-character suffix which is separated by a dot from the file name, e.g. "name.txt".

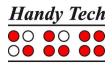
By pressing [SPC + 4 5 6] or {End} on the external keyboard you jump directly to the end of the file list. With [SPC + 1 2 3] or {Pos1} you can also jump directly to the first object (file or folder) within the list. With [SPC + TU] {Ctrl+Arrow up} you reach the first folder, if the option "show f(O)lders first" is set to on. Otherwise you get the first file. With [SPC + TD] {Ctrl+Arrow down} you reach the last file, if the option "show f(O)lders first" is set to on. Otherwise you get the last folder.

If you are within a folder, all 8 dots of the first Braille character on the Braille display are set. A full character is added for each additional sublevel. Thus, you can see by the number of preceding full characters, in which sublevel you are. For going back one level, select the two dots ".." item. You can also press the [CR] key on the full Braille character to get back.

Normally, only the name of the file or folder will be displayed (short view). To see the whole path with all folders (full view) press [SPC + 1 3 4 6 7] (Chord X) {Ctrl+Shift+x}. In full view, you can jump to the desired level by pressing the [CR] button over the slash in the same level.

To quickly find a file or folder in the current folder, you can enter directly the name. The search will start with entering the first letter of the file name or word you are looking for. A high signal tone indicates that the file was found, and the name will be displayed. The more characters you enter the more precise is the search. In the moment the file or folder name is appearing the file is selected. It is not necessary to enter more characters. With backspace [SPC+1 2] you can delete entered characters.

Operation of the Actilino



If no file is found matching the letters you entered, a warning signal will sound. The warning signal output, however, depends on the settings for signal tones (see chapter 5.1.12.11).

If no file is stored in the current folder, a message 'No files stored on disk!' appears. By pressing [TLC] {Esc} you will return to 'New directory'.

If you select an existing file or folder by pressing [TRC]{Enter}, another menu level with the following items appears.

5.1.2.4.1 (E)dit

This menu item is only available for single files and opens the file in the Editor. The cursor is at the beginning of the file or, if the file was opened and saved before, at the position the cursor was in when the file was saved. The cursor is displayed by blinking dot 7 and 8. The file is automatically opened in insert mode. If this menu item is not available, you have either selected a folder or one or more files (recognizable at set dots 7 and 8). If you open a music file with the extension ".hmf" for editing, the application "MusikBraille" will automatically be launched. (see chapter 5.1.6 (M)usikBraille).

5.1.2.4.2 (V)iew

This menu item is only available for single files. This command opens the file in "Read Only" mode. You can recognize the Read Only by the non-blinking Cursor shown as dot 7 and 8. Files opened in Read Only cannot be modified. If you attempt to enter or delete characters, you will simply generate warning signals, as long as the acoustic signals setting in the Actilino's (O)ptions menu is set to output warning tones. If the file is opened for the first time, the cursor is located at the beginning, if not, it will be located at the previous cursor position. You can close files in Read Only by pressing [TLC] or {Esc}. If this menu item is not available, you have either selected a folder or one or more files (recognizable at set dots 7 and 8). If you open a music file with the extension ".hmf" for reading, the application "MusikBraille" will automatically be launched. (see chapter 5.1.6 (M)usikBraille).

5.1.2.4.3 (O)pen

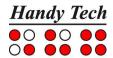
This menu item is only available for single folders. With this function, you open the folder and view its contents. These are marked with a leading full character. To leave the folder, select the two points which follow the full character. In a folder, you can create new files or folders and reopen the last opened file. If this menu item is not available, you have either selected a folder or one or more files (recognizable at set dots 7 and 8). However, in order to get into the folder (for example to insert files), press [SPC + TRC] {Ctrl+Enter}.

5.1.2.4.4 c(U)t

In order to move a file or folder, you can cut it and insert it into a different place. Use the menu item "c(U)t" or press [SPC + 1 3 4 6] (Chord x) {Ctrl+x}. All marked objects will be copied into the clipboard. Then move to the folder, you want to insert it and press [SPC + 1 2 3 6] (Chord v) {Ctrl+v}. The files and/or folders from the clipboard will be inserted at the desired location and removed at their original location.

5.1.2.4.5 (C)opy

To copy a file or folder, choose the menu item "(C)opy" or press [SPC + 1 4] (Chord c) (Ctrl+c). All marked objects will be copied into the clipboard. Then move to the folder, you



want to insert it into and press [SPC + 1 2 3 6] (Chord v) {Ctrl+v}. The files and/or folders from the clipboard will be inserted at the desired location.

5.1.2.4.6 (P)aste

If you have marked one or more files and/or folders and executed "c(U)t" or "(C)opy", you can use the "(P)aste" function to insert objects from the clipboard. Alternatively, you can press [SPC + 1 2 3 6] (Chord v) {Ctrl+v}. All objects from the clipboard will be copied into the current folder. These objects stay in the clipboard, until you execute "c(U)t" or "(C)opy" again. This means, you can copy objects from the clipboard to as many places as you want.

5.1.2.4.7 (D)elete

This command allows you to delete files and folders. First a message **'Sure deleting (Y/N/A)?'** appears. By entering [y] for yes or activating the [CR] key above the "y", you will delete the file or folder irrevocably; entering [n], [a] or [TLC] cancels the command. An open file cannot be deleted. Alternatively, files can also be deleted by entering the command [SPC+45] or pressing the {Delete} key on an external keyboard.

If you have marked several files and/or folders, Actilino will inform you about the number of objects.

Note:

It is possible to display and delete system files (see chapter 5.1.12.4). However, you should only undertake this if you know exactly what you are trying to do. For example, if you were to delete the message file (msg.hsf), you could not work on the Actilino until you have loaded this file again. Because of this, you will receive the following warning before you can delete any system file: 'Warning: Deleting this file can cause system instability'

We recommend that you do not delete any system files which could cause the malfunctioning of your Actilino.

5.1.2.4.8 (R)ename

The rename function allows you to rename a file or folder. This menu item is only available for single objects. If this menu item is not available, you have either selected a folder or one or more files (recognizable at set dots 7 and 8). You can also press [SPC + 1 2 3 5] (Chord r) {Ctrl+r} to rename a file or folder. Actilino prompts the original name, which can be edited or overwritten.

5.1.2.4.9 **Prop(e)rties**

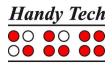
After selecting this menu item, the file's or folder's name will be displayed, followed by its size in kB and the date and time at which it was most recently accessed. If you have marked one or more objects, you get the number of marked files and folders, as well as their size. Folders and several objects have two different sizes: their actual size and the occupied space on the disk.

You can exit this display by pressing [TLC] {Esc}, which will return you to the file list.

5.1.3 c(A)lculator

The calculator function permits you to carry out calculations with your Actilino and to save the results or to insert them into a text. The calculator operates with an accuracy of 15 digits and the decimal point can be positioned anywhere within these 15 digits. It offers the following mathematical operations:

Operation of the Actilino



- + Addition
- Subtraction
- * Multiplication

/ Division

() Bracketing with up to 10 pairs of brackets, whereby the brackets may be nested % Calculation of percentages

Only digits and calculation operands are allowed for the input of the calculation. It is possible to enter letters, but they are only used for comments.

When you select the menu item "c(A)Iculator", an empty Braille display with a cursor appears and you can enter the desired expression. Blanks are not permitted in the input. A typical input could be, for example:

'3*5+6'

Pressing [SPC+2 3 5 6] (Chord =) or {Ctrl+Shift+Enter} causes the expression to be calculated and the result is displayed before the expression. In the example above, this looks like this:

'21 = 3*5+6'

In the calculator options (see Sections 5.2.24.7 and 5.2.24.8), you can define whether the result is to be displayed before or after the expression or on its own. By default, the resulted is displayed as in the example above before the expression.

You can navigate through the individual calculation steps with [TD] and [TU] if, for example, you wish to modify an earlier expression. This means that you do not have to enter the complete expression again. In our example, we want to insert a pair of brackets:

'3*(5+6)'

Pressing [SPC+2 3 5 6] (Chord =) or {Ctrl+Shift+Enter} now causes the following result to be displayed:

33 = 3*(5+6)

You can delete all previously entered calculation steps by pressing [SPC+1 4 8] (Chord c + Dot 8).

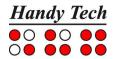
If you wish to carry out further calculations with the result, this can be done in two different ways:

- 1. You can delete the equals sign and the original expression and enter a new expression in the same line.
- 2. You can press [SPC+4 6] or {End} to move to the end of the current line and then press [TRC] or {Enter} to position the cursor at the beginning of the next line. If you now enter a mathematical operator at the beginning of this line, the result from the previous line is automatically inserted in front of it. This method permits you to follow all of your calculations more clearly.

You can also save the calculation steps you have entered by pressing [SPC+2 3 4] (Chord s). The calculation is then saved in a file with the default name calc.txt. If desired, you can change this name before saving the calculation.

The normal editing functions, such as marking a block of text, are also available in the calculator. You can thus, for example, mark the result of a calculation, copy it to the clipboard and insert it into a text file.

If you only want to insert the result of the last calculation into a text file, simply press [SPC+1 4 7] or {Ctrl+Shift+c} while in calculator mode. This copies the result of the last calculation into the clipboard, from where you can insert into any desired text file.



You can return to the menu without closing the calculator and thus losing all of the calculations you have carried out. To do this, press [SPC+1 2 3 4 5 6]. The menu items are then all preceded by '-C-' to remind you that the calculator is still active in the background.

If you also open a file for editing and then suspend this with the key combination [SPC+1 2 3 4 5 6], the menu items are preceded by 'CE-'. For further details, please read Section 5.2.18.

Calculation examples:

To add 19% VAT to a net price of 500 €:

'500+19% = 595'

To calculate the net price from the price with VAT:

'595/1.19 = 500'

To calculate the VAT at 19% for a net price of 500 €:

'500*19% = 95'

To calculate the actual price if you receive a discount of 5%:

'595-5% = 565.25'

It is also possible to divide a value by a percentage:

'20/5% = 400'

The following example shows the calculation accuracy of 15 digits:

'123456789/3.3 = 37411148.1818182'

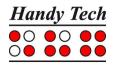
5.1.4 (S)cheduler

The Scheduler allows you to access the Actilino's added capability of tracking both unique and recurring appointments. The Actilino can remind you of your appointment ahead of time, with the lead time specified by you, providing a brief description of the appointment. This feature is very useful, for example, for storing the dates of your family and friends' birthdays on your Actilino, which will then remind you reliably and in time.

The Scheduler provides the following functions:

- Managing your schedule: enter, edit, delete and copy appointments.
- Manage regularly recurring appointments.
- Display all appointments as a list sorted by date and time, with the additional option
 of highlighting certain appointments (for example, in order to delete several
 appointments at once). The calendar week that contains the appointments is also
 displayed.
- Full text search of the appointment schedule.
- Check for appointments that have passed upon power up of the Actilino.
- Continuous monitoring of appointments and notification with the specified lead time.

When you open the Scheduler from the main menu, you have the option of either entering a new appointment after pressing the [TRC] key (the Braille display shows "**New entry**") or you can enter the command [SPC+4], moving the cursor downward. In this case, the Actilino will display the next scheduled appointment. If the warning signal sounds to remind you of an upcoming appointment, you can turn it off by entering any key during the signal. The following paragraphs explain the Scheduler's various functions and capabilities in detail.



5.1.4.1 Entering a New Appointment (New entry)

After pressing [TRC], a form for entering the particulars of a new appointment will open. Depending on the number of Braille elements available on your system, several input fields will be displayed which you can use to enter all the data related to that appointment. Just reading the data shown provides information about the contents and the meaning of most of the input fields. Also, whenever possible, the input fields will already contain current data, which makes it much easier for you to enter appointments. Numeric fields, like the weekday, can be filled by entering numbers.

5.1.4.2 Entering and Editing Appointments

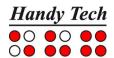
All the information needed for entering an appointment is displayed on your Actilino in the following order, moving from left to right:

- Day of the week in a standard abbreviation (up to 3 characters)
- Day
- Month
- Year (2 digits)
- Time, in the format "hours:minutes" (military time)
- Calendar week (calculated automatically): as soon as you have entered the date completely, the calendar week is displayed in the 2-digit format. If the calendar week cannot be calculated for the reasons described below, this field will show two question marks (??).
- Reminder lead time, in the format "days, hours:minutes". The input fields for the
 reminder lead time are displayed within parentheses. If you enter a lead time, you will
 receive a reminder ahead of an appointment, but you will still see the actual
 appointment time on the appointment schedule. For example, you can be reminded
 of a birthday two days before, so that you will still have time to get a gift. The default
 setting for the lead time is 15 minutes.
- Appointment description (referred to as the text field here). This field can contain up to 120 characters.

Only the information relevant to the current data entry is shown on the Actilino. For example, on a portable Actilino with 16 modules, you will only see the text field while it is active and can be edited. In the date and time input fields, blinking dots 7 and 8 under the character show that this character can be edited. In the text field, the blinking character indicates the cursor position.

Key assignments:

- [TLC]: Cancel the entry and return to the appointment schedule.
- [TRC]: Move on to the next input field. If the cursor is still within the previous input field, you will complete your input when you press the [TRC] key.
- [Backspace/Delete] (Chord b or Chord >): If the cursor is located within the text field, the character preceding or at the cursor position will be deleted.
- [Cursor to the Left/Right] (SPC+7/8):
 - Activate the previous/next input field.
 - If the cursor is located within the text field, this will move the cursor to the left or right.
 - If the cursor is at the first character position of the text field and you move to the left, you will exit the text field and activate the input field preceding the text field.



- [Cursor Up/Down] (TU or TD): Increase/decrease the current value in the input field by 1. These commands have no function in the text field.
- [SPC+2/SPC+5]: Increase/decrease the current value in the input field by 10.
- [Pos1/End] (Chord k or Chord \$): If the cursor is located within the text field, it will jump to the beginning/end of the field.
- [Cursor Routing Keys]:
 - If the cursor is located within the text field, it will jump to the position of the cursor routing key you pressed, if that position is within the text field.
 - If a cursor routing key above a data field is pressed, that field will be activated so that you can edit it.

Once you press [TRC] after editing the text field, the Actilino will first check whether the new appointment conflicts with any other appointment already stored in the data base. If this is the case, you will be notified, and you can then either edit the new appointment some more or save it anyway. The appointment is entered into the Scheduler's database by first determining the correct place for the appointment and then updating the database.

When the appointment is stored, two signal tones are emitted. If there are only a few appointments stored in the database, the two tones will sound very close together, but the more appointments that are contained in the database, the longer the pause between the two-tone signals. However, it is important that you wait and listen for both tone signals or, if you have disabled the tone signals ((O)ptions, (T)one signals), that you wait until the appointment schedule reappears on the Braille display. Any premature action or shutting down of the device can damage the appointments file or even the entire file system. To utilize the Scheduler's functions most efficiently, we therefore recommend that you take time now and then to delete appointments that are no longer needed from the appointments data base. There is further information on this topic below.

5.1.4.3 Entering Appointments with Variables (Recurring Appointments)

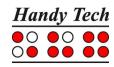
The input fields for an appointment permit the entry not only of numeric values, but also the star symbol (*) for a variable. To enter the star symbol, you can simply move past the maximum or minimum value permitted for the input field. You can also enter the star symbol directly.

The Scheduler interprets the star symbol to mean that the appointment is not restricted to a fixed value. Instead, the appointment recurs when the corresponding date input field changes with the actual date. For example, if you enter a star for the day input field for your appointment, that appointment will recur every day. A few examples will illustrate the management of appointments with variables. A description of the example is followed by the settings entered into the Scheduler's input fields in the following examples.

- Every Friday at 4:15 PM: "Fr *.*.* 16:15"
- On every 5th of the month at 10 AM: "* 05.*.* 10:00"
- On every 1st of the month during the year 2005 at 12 noon: "* 01.*.05 12:00".
- On 02/01/04, with notification upon power up: "02.01.04 *:*". The day of the week does not need to be set, because it is updated automatically after the date has been entered.

Once you enter a variable appointment or confirm it after it has occurred, the Scheduler will inform you when that appointment will occur the next time.

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Please note:

- If you want to be reminded of an appointment when you turn the power on, the only
 input field that contains variables should be the time field.
- If you accidentally enter a star for every input field, that appointment cannot be processed. You will receive an error message describing this problem.

5.1.4.4 A Few Notes on Entering Appointments

There are a few things to keep in mind when entering appointments:

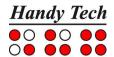
- Any dates that are in the past cannot be processed, which also includes the lead time for notification. The Scheduler will inform you that the time of the appointment or reminder has already passed.
- The Scheduler checks for any overlap between appointments for the lead time, both before and after the new appointment. Of course, any conflicts with variable appointments are also taken into account in this conflict check. If there are conflicting appointments, you will receive the message: "Entry overlaps (xy z a), continue (Y/N)?". If you answer yes, your new appointment will be entered into the Scheduler's database. If you respond no, you will be able to edit the appointment.
- If two appointments are scheduled at exactly the same time, a warning will appear ("Entry overlaps (xy z a), continue (Y/N)?"). As before, you will now have the option of either confirming the appointment and entering it into the database or changing the appointment by answering no.
- Every editable input field except for the lead time can contain either the star symbol (*) or a valid numeric value. The star symbol indicates a variable. An incorrect entry (e.g. appointments with too many variables) will result in an error message ("Scheduler: Too many variables in this entry").
- If you edit appointments that contain variables later, the variable input fields will show the original variables instead of the current data values for those fields.
- If the time input field is filled entirely with star symbols, then that appointment is considered as occurring upon power up of the Actilino on the specified date.
- The time input field can contain either all numerical data or all star symbols. No other kinds of input are valid.
- The weekday can be specified only if one of the input fields for the day, month or year is variable. Otherwise, the weekday is calculated automatically based on the date.
- For all variable appointments, the calendar week is not calculated.

5.1.4.5 The Appointment Schedule

The appointment schedule shows all the appointments sorted by date. As already mentioned, when you open the Scheduler, you will first see "**New entry**". If you press the {Cursor Down} key now, the Scheduler will display the next appointment due, if the database contains any scheduled appointments. If there are only past appointments in the database, the appointment schedule will begin with the appointment that is the furthest in the past. If there are no appointments in the database, you will remain at "**New entry**".

The sequence of the data fields shown on the schedule corresponds to the sequence of data input fields, except that the calendar week and the lead time are not displayed. The first column of the display contains a symbol indicating the type or status of the appointment.

The following list explains the meaning of these symbols:



- m: This appointment is marked. If you enter the delete command and respond yes to the prompt, all marked appointments will be deleted from the database. Up to 20 appointments can be marked at the same time.
- Exclamation mark (!): Indicates the next scheduled appointment due.
- Star (*): Indicates that this appointment contains variables, meaning it is either a
 recurring appointment or it is due upon power up of the Actilino.
- Hyphen (-): This appointment has passed already.
- i: Indicates that this appointment is not yet past, but you have already confirmed your reminder alarm. This is only applicable to appointments that include a notification lead time.

To optimize the display, only one character is ever used for these status symbols. This means that only the status most relevant to you is actually indicated. For example, if the appointment in question contains variables (star symbols), but is also the next scheduled appointment, it will be marked with an exclamation mark. If you mark the next scheduled appointment by pressing the space bar, only the symbol for a marked appointment is shown.

The [TRC] key allows you to select a specific appointment, whereupon a submenu will open. This gives you the option of either editing, deleting or copying the appointment.

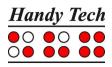
Key assignments within the appointment schedule:

- [TLC]: Exit the Scheduler and return to the main menu.
- [Cursor Down/Right]: Display the next scheduled appointment in time.
- [Cursor Up/Left]: Display the previous scheduled appointment in time. If you are already on the oldest scheduled appointment in time in the database, this command will return you to "New entry".
- [TRC]: Open the appointment editing menu.
- [SPC+1 2 3]: Jump to "New entry".
- [SPC+4 5 6]: Jump to the appointment farthest in the future.
- [SPC+1 2 3 4 5 6]: Display the next appointment due. This is the same effect as opening the Scheduler and entering the [Cursor Down] command.
- [SPC+1 2 4] Open the full text search (s. below).
- [SPC]: marks or un-marks the appointment.
- Reading Keys: Enable you to read the currently selected appointment entry. By
 entering [TU], you will move on to the previous appointment. [TD] lets you read the
 entire appointment entry and then move on to the next appointment, if there is another
 one. This capability means you can leave your fingers on the Braille display and still
 move on from one appointment to another.
- [SPC+1 4] (Chord c): Go directly to the copy function of the appointment editing menu. You will find a more detailed description of the appointment editing menu and its functions in a subsequent section.
- [SPC+4 5]: Go directly to the delete function of the appointment editing menu.
- [SPC+TRC]: Go directly to the edit function of the appointment editing menu.

5.1.4.6 Full Text Search within Appointments

A full text search is available for your appointments. It is activated by entering [SPC+1 2 4] in the appointment schedule. This command will call up a search prompt where you can enter a search string of up to 40 characters. Your input position is indicated by a cursor symbol.

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Key assignments:

- [TLC]: Cancel the search string input and return to the appointment schedule.
- [TRC]: End the search string input and start the search.
- [Cursor Left/Right]: Move the cursor left/right within the search input field.
- [Backspace/Delete]: Delete the character to the left of or at the cursor position.
- [SPC+1 3 or 4 6]: The cursor jumps to the beginning/end of the search string.

When you finish entering the search string by pressing [TRC], the search will start. The following characteristics apply to these searches:

- Searches are not case-sensitive.
- The search starts at the most recently displayed appointment. Once the search reaches the end of the appointment file, the search will continue from the beginning of the file.
- The search fails and is cancelled when the currently selected appointment is reached again without another appointment containing the search string having been found.
- If the search fails, you will receive a message indicating ("Text not found"). After
 exiting this message by pressing [TLC], the appointment displayed before the search
 function was initiated will be displayed again.
- If the search string is found within the text field, the display will switch to the found appointment, just as if that appointment had been selected manually.
- Calling up the search function again will also display the previous search string. However, the search string is only stored as long as the Scheduler is open.

5.1.4.7 Appointment Editing Menu

This menu opens after you press [TRC] while an appointment is selected. The editing menu provides the following functions:

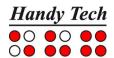
- "(E)dit": The data of the appointment can now be changed. The input sequence is the same as for a new appointment, but all input fields contain the data of the selected appointment. If you edit an appointment that contains variables, the variable input fields will show the star symbol, not the current data values. Any changes you enter will overwrite the original values immediately after you confirm the input without any further prompts. As in the case of new entries, a conflict check will be executed, and you will receive information about any overlaps. Using the [TLC] key will return you to the appointment editing menu without saving the edited information.
- "(D)elete": Delete that appointment. This option is identical to deleting a file in terms of the procedures and functions. Aborting the procedure or responding no to prompts will return the display to the appointment editing menu. Confirmation of the procedure will result in deleting that appointment or all marked appointments, if applicable.
- "(C)opy": The appointment is opened as a copy, which you can edit as described above. When this appointment is saved, it will become a new entry in the Scheduler's database instead of overwriting the original appointment.

Please note:

The Delete function is the only function that applies to marked appointments. The other functions in this submenu apply only to the currently selected appointment.

Key assignments in the appointment editing menu:

• [TLC]: Return to the appointment schedule.



- [TRC]: Activate the selected menu item.
- All commands that can be used within the menu system are also valid.

5.1.4.8 Information Regarding Past Appointments

Whenever the Actilino is powered up and on an ongoing basis during the operation of the system, it monitors the appointment schedule to determine whether an appointment is due or has passed while the Actilino was switched off. In either case, a repeating warning signal is emitted to indicate the appointment and the description of the appointment is displayed blinking. The alarm signal can be turned off by entering [SPC+7 8], but the appointment must still be confirmed by pressing [TLC]. The Actilino then returns to whichever function was active before the appointment information was displayed. If the appointment you just confirmed was a variable appointment, its next occurrence is automatically calculated based on the current date and time and entered into the appointment schedule. The next occurrence of this appointment is also displayed on the Actilino and needs to be confirmed by pressing the [TLC] key. The text for the appointment may stay till your next operation. If you want to skip the checking for appointments when switching on the device, you have to hold down [6] for some time while switching on. An additional high signal tone before the low signal tone will confirm this.

5.1.4.9 Resources Management

Depending on how you use the Scheduler, it may reduce the available memory on your Actilino. You can prevent excessive loss of memory by deleting appointments that have passed as soon as possible. The Scheduler will then utilize the freed-up memory space to store new appointments. The marking function (the [SPC] key within the appointment schedule) can be used to efficiently delete several appointments simultaneously. Up to 20 entries together can be deleted with one command with this function. Since recurring appointments can result in the accumulation of a lot of data, the Scheduler automatically deletes these while updating the variable values. This means that an appointment containing variables is saved only once on the Actilino, under the next due date.

5.1.4.10 Backing up the scheduler data

If you use the scheduler intensively, we recommend that you back up the related data regularly. The scheduler data are kept in the file "PLANER.HSF". This is a system file (HSF = Handy Tech System file) and is therefore not normally shown in the file list.

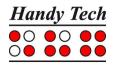
Just like any other file, the scheduler data can be transferred to a PC with the program HTCom. Further details on this can be found in the operating instructions "Transferring data between the Actilino and a PC". In the file selection dialog of HTCom, there is a checkbox for displaying the system files. After activating this checkbox, you can select the file "PLANER.HSF" and transfer it to your PC. We recommend that you deactivate the checkbox again after transferring the file.

Please note that you can only back up the file "PLANER.HSF" on your PC; you cannot edit it there.

5.1.5 (C)lock

The Clock function allows you not only to display the current date and time, but also to activate an alarm function. In addition, this function provides a stopwatch and countdown feature. When you select this menu item by pressing [TRC], another menu level appears, which contains the following options:

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5.1.5.1 (T)ime

This option shows the current time according to the Actilino's internal clock. The details are each separated by a colon. The time format (12 or 24 hours) can be changed in the options menu (see 5.1.12.12 (D)ate and time format).

5.1.5.2 (D)ate

As with the time, the date is taken from the internal clock of the Actilino. The display of the date begins with an abbreviation of the weekday (two or three characters) in the selected system language. The details are separated by full stops and the year is shown with two digits. The date format (English or continental) can be changed in the **(O)ptions** menu (see 5.1.12.12 (D)ate and time format).

5.1.5.3 set (A)larm

This option provides you the opportunity to display and set a time at which you want the Actilino to emit an alarm. When the time set here arrives and the Actilino's power is on, a rhythmic alarm tone sounds. If you press [SPC + 2 3 4] (Chord s) for "Snooze", the alarm tone will turn off for five minutes before sounding again or until you turn it off by pressing any key. At the same time, the Actilino displays the message 'Clock alarm'. This message remains on the Braille display even after the sound has been shut off until you press [TLC]. If you turn off the Actilino, an active clock alarm will be deactivated.

If an alarm time was entered previously, this time will be displayed after selecting this menu item. The '[X]' displayed before the time indicates that the alarm function is currently active. The alarm is activated and deactivated by pressing the [SPC] key. It is also possible to activate or deactivate an alarm by pressing the [CR] key above the shown alarm time or above the checkbox to change the status of the alarm.

To change the alarm time, enter [TRC]. Then the message 'Alarm:' appears, followed by the currently set time in the format hour:minute, separated by a colon. Dots 7 and 8 will blink at the location of the hour.

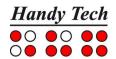
The hour can be changed by using the [TD] and [TU] keys. The [TU] key decreases the hour by one, the [TD] increases the hour by one. To switch to the minutes setting you may press either [TRC] or [SPC+8]. Entering [SPC+7] will move you to the previous setting. Minutes are changed in the same way as hours with the [TD] and [TU] keys. When you have finished, you can return to the alarm time display by pressing the [TRC] key and the alarm is now set.

If you want to make sure you have entered the desired alarm time, simply select the same menu item again. The alarm time you just set will be displayed, preceded by '[X]'.

5.1.5.4 set (C)lock

You can set both time and date in this submenu. First, '**Time:'** is displayed, followed by the time as currently set. Dots 7 and 8 will blink at the location of the hour, which can be changed by pressing the [TU] and [TD] keys. [TU] decreases the hour by one, [TD] increases the hour by one.

To switch to the minutes setting, you may press either [TRC] or [SPC+8]. Entering [SPC+7] will move you to the previous setting. Minutes and seconds are changed in the same way as hours with the [TD] and [TU] keys. When you have finished setting the seconds, pressing



the [TRC] key lets you move on to the date, 'Date:' is shown, followed by the date in English or continental format, depending on the choice in the (O)ptions menu; each detail is indicated by two digits and separated by a period. These values can also be increased or decreased with the [TD] and [TU] keys. When you have set the desired value, you may confirm it by pressing the [TRC] key. When the year has been set, pressing the [TRC] key lets you return to the (C)lock menu.

5.1.5.5 (S)topwatch

The **(S)topwatch** feature means you can measure any time duration in hours, minutes and seconds. An **'[X]'** preceding the most recently stopped time indicates that the stopwatch is running. To start and stop the stopwatch, press the [SPC] key. The stopwatch automatically starts running from 0 when you release this key. The stopwatch can be reset by entering [TRC]. You can also start and stop the stopwatch by pressing the CR key above the time displayed or the checkbox.

You can quit the Stopwatch display by pressing [TLC]. This means the stopwatch will continue to run in the background while you work on your notes or in PC Mode.

5.1.5.6 c(O)untdown

The countdown feature can be used to set any time period up to 24 hours in hours, minutes and seconds. After starting the countdown function, the countdown period will begin to count down. When 0 has been reached, a rhythmic alarm will be emitted until you shut it off by entering any key. At the same time, **'Countdown alarm'** is displayed on the Braille display. This message remains on the Braille display even after the sound has been shut off until you press [TLC].

When you select this menu item, **'CD time: 00:03:00'** is displayed. As before, dots 7 and 8 will blink at the location of the hour, which is changed by pressing the [TU] and [TD] keys. To switch to the minutes setting, you may press either [TRC] or [SPC+8]. Entering [SPC+7] will move you to the previous setting. Minutes and seconds are changed in the same way as hours with the [TD] and [TU] keys. After setting the seconds and then pressing the [TRC] key, the countdown is initiated. You can recognize this by the **'[X]'** preceding the display showing the remaining amount of time.

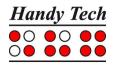
To stop the countdown and reset the countdown time, press [TRC]. To exit the countdown function, press [TLC]. If the set countdown time is 0 and you press [TRC], the countdown will start, starting from 24 hours.

5.1.6 (M)usikBraille

MusikBraille is the first Braille music Editor that not only plays each note as you type it, but also as you read, using ATC technology. Because MusikBraille is an Editor, it behaves similar as described in chapter 5.1.2 (F)ile. You can edit, read, copy, delete, rename etc. music files, as well as create, open, copy, move and rename folders. In the application MusikBraille only music files and folders are displayed, no text documents or any other files.

You start MusikBraille by selecting its entry from the main menu of the Actilino, then selecting "New file" or an existing music file. You can then begin typing notes immediately and hear each note as you type it. In addition, each note will be played back to you when you read it on the Braille display. In this way you can quickly and easily learn the notation by listening

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to the notes as you read. Or you might type your favourite scale and then use your reading finger for improvisation, turning your Braille display into a musical instrument.

Use the triple action keys to navigate through the music you entered and press cursor routing keys to place the cursor just like in any other Editor. In addition, MusikBraille currently recognizes the following commands:

[SPC + 15] (Chord e): Exits MusikBraille. If the file has not yet been saved, Actilino suggests the name "musik.hmf". You can overwrite the name or leave the editor without saving. You get back to the main menu.

[SPC + 1 2] (Chord b): Backspace; deletes the note or symbol to the left of the cursor.

[SPC + 2 3 4] (Chord s): Saves the current contents of the Editor to a file. If no name has been assigned yet, Actilino suggests the name "musik.hmf". You can also overwrite the name. Please note that music files have the extension ".HMF" which cannot be changed.

[SPC + 1 2 3 4] (Chord p): Plays the music you entered, following the position of playback with the cursor and scrolling when appropriate.

[SPC + 1 2 3 6] (Chord v): Toggles entry of shorter note values, enabling you to type notes of lengths shorter than an 8th.

[SPC + 1 2 3 4 5 6]: MusikBraille exits and plays music in the background. Press [SPC + 1 3 4 6] (chord x) from the main menu to go back to MusikBraille and stop the music.

[SPC + 1] or [SPC + TO]: increases the volume

[SPC + 4] or [SPC + TU]: decreases the volume

[SPC + 2 4] (Chord i): calls the instrument selection. Here you can choose an instrument by using TO and TU. Confirm your choice with TRM or CR and return to the note view.

MusikBraille files are saved on the Actilino with the extension ".HMF". They can be placed into folders in the same way as text files (see chapter 5.1.2 (F)ile).

You can also compose an individual start-up sound which sounds when the Actilino is switched on. Therefore, please save your music file under the name "startup" in the root directory of your Actilino. The extension ".hmf" will be added automatically if you save music files. Please note that the melody for the start-up sound should not be too long.

5.1.7 pLayer (L)

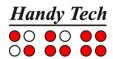
The integrated speakers and the headphone jack of the Actilino offer the possibility to listen to music or other sounds played by devices (e.g. iPhone, Android phone or PC) which are connected via Bluetooth. In addition, there is an in-built microphone which can be used to make phone calls.

Once the player was started, an audio connection to the mobile phone or PC will have to be activated. Therefore press [SPC + 2 5 7 8].

A tone signal will sound once the audio receiver was switched on. If you are using an iPhone, it must be briefly switched to the lock screen so that it can recognize the new audio connection. If you are using an Android phone, open the Bluetooth settings on the Android device and select the Actilino from the list of paired devices. When you open the Actilino settings, please activate the "Audio" setting. Only "Calls" is activated by default.

Now the Actilino Player is ready to operate your phone or PC and the Braille display will show:

,play - + < >'



To play or stop a tune simply press any CR key above the word "play". Key-presses of the CR-key above the minus sign will decrease the volume, above the plus sign will increase the volume. The reaching of the minimum or maximum value is indicated by a sound signal. The volume is adjusted in 16 steps. Alternatively, you can adjust the volume by holding down the on/off button and pressing [TO] for louder and [TU] for softer.

Pressing the CR key above the small character causes the current piece of music to play from the beginning. Press again to jump to the previous track. Pressing the CR key above the magnifier moves to the next track.

When the player is playing music, press [TLC] or {Esc} to return to the menu and continue working with the Actilino. Playback continues. Thus, e.g. edit files and listen to the Actilino's music. To return to the player, press [SPC + 1 4 7 8].

To quit the audio connection, press [SPC + 2 5 7 8] again. Again, the iPhone must be switched to the lock screen briefly to recognize the change.

5.1.8 (G)ames

To facilitate the learning of Braille with Actilino, we have implemented a game. At the game "(H)angman" you have to guess the letters composing a word.

5.1.8.1 (H)angman

This is a variation of the classic game of Hangman, in which the Actilino generates a mystery word. Your goal is to guess the word by finding its individual letters.

When **(H)angman** starts, there will be a number of dots on the Braille display. Each dot represents a letter of the mystery word. Now it is time to make your first guess by typing a letter on the Braille keyboard on the Actilino or, alternatively, on an external USB keyboard. If the letter you typed in is a part of the mystery word, then all instances of it will be revealed on the Braille display and you will hear a little victory sound. On the other hand, if the letter you typed in is not part of the mystery word, you will lose a point and hear a little warning sound. With every point you lose, the warning sound will increase in pitch. To win the game, you will have to reveal the entire word. In this case the Actilino shows **'Congratulations! You have won!'** You lose the game when you make 7 wrong guesses. In both cases the game is over, and you have to restart it by calling the menu item. To exit the game at any time, simply press Chord e (or {Ctrl+e} on an external keyboard).

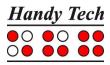
The solution words are saved in the /HTSYS/LANGUAGE folder on the SD card. Each selectable language can have its own file. The name of the file is built according to the following scheme: "Language_hangman.lst". If there is no file for the selected language, "English (US)_hangman.lst" will be used automatically.

You can add your own words to these files or add for a file for a specific language. Please note that a word consists of a maximum of 16 letters and only lowercase letters are allowed. After each word, there must be a newline character (CR/LF). After editing the file, you must re-start the Actilino for the changes to take effect.

5.1.9 (P)C mode

This menu command activates Braille display mode. During the start-up of the screen reader program, the PC mode is activated automatically. Activating PC Mode via the menu is necessary only if you have previously switched from PC Mode into menu mode with [SPC+1 3 4] (Chord m).

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Please note that you must press the [SPC+1 3 4] keys for about one half of a second in order to return to menu mode from PC mode. A quiet clicking sound will indicate that you have returned to menu mode.

5.1.10 (B)raille sets

The Braille character sets will be selected automatically according to the language selection. If you change the language to French for example, then the French Braille character set will be loaded as standard. The menu entry for the standard character set indicates in brackets, which Braille set is used. In case there is no special character set for the selected language, the standardized Braille character set (Eurobraille) identified as "internal" will be used. This section discusses the creation, loading and activation of Braille character sets. In addition to the default character set for the selected system language, nine other character sets may be loaded into the Actilino.

5.1.10.1 Creating a Braille Character Set

The easiest way to create a custom Braille character set is to modify an existing character set. You will find several Braille character sets in the installation directory of the firmware. For easier orientation, a subdirectory called "Brailletables" is created during installation which contains the character sets.

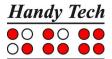
For example, if you wanted to edit the ibm437 character set and store it as a new, customized character set, you would open the text Editor supplied with Windows by selecting "Execute" from the Start menu and then entering "Notepad" followed by {Enter}. Once the text Editor is open, you can open an editable version of the ibm437.asc file by activating the menu item "Open" from the **(F)ile** menu.

The file ibm437.asc will open and can be edited. Please do not modify the file structure but you may change the Braille characters as desired. The Braille dot combinations are given as their number equivalents on each line, along with the designation of the character. However, the first line in the file contains a description of the character set in that file. The characters are in ASCII character order. You can modify the dot combinations for any character by changing the numbers. For example, if you want to represent the digit 4 with dots 2 3 5 instead of dots 1 4 5 6, you will change the numbers 1 4 5 6 to 2 3 5. Please note that at least one space must be entered between the dot combinations and any comments, because otherwise the conversion of the Braille table while transferring it to the Actilino may fail

When you have finished changing characters, you can save the modifications under a new name.

5.1.10.2 Loading Braille Character Sets

As mentioned above, nine additional Braille tables can be loaded into the Actilino in addition to the default character set. For example, if you have created a table under the designation Mytable.asc, you can load it into the Actilino with the HTCom program. Start-up HTCom and activate "Load Braille Table". A dialog enables you to specify the character set to be transferred by selecting or entering the name. After pressing the {Enter} key you can specify the Braille table slot where you want the table to be saved. Pressing the {Enter} key again will initiate the file transfer.



Please note:

If you work with the 6-dot character sets delivered with your Actilino, writing texts in the Editor, these texts will be stored entirely in upper case letters. The reason for this is that the capital letters' ASCII codes are found first while searching through the character set table.

5.1.10.3 Selecting and Activating Braille Tables

Once you have activated the menu item '(B)raille sets' on the Actilino, you can select a character set and activate it by pressing [TRC]. The slots besides the standard character set are empty in the condition of delivery. An X enclosed by square brackets indicates which character set is active. The menu consists of the following items:

[X] **(S)tandard set**: The default character set, which is always available.

#(1): <empty>

to

#(9): <empty>: Positions for the nine additional loadable character sets.

The designation **<empty>** shows that there is currently no character set stored at this position. If a character set has been downloaded, a name appears instead of **<empty>**, showing the file name, under which the character set was loaded into the Actilino.

If you attempt to activate an empty slot, the Actilino will respond with the message: **'Braille set n is empty'** where n is the number of the currently selected character set.

If the selected character set exists, it will be activated immediately and you will be returned to the main menu, menu item '(B)raille sets'. The new character will then be activated.

Note:

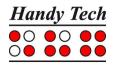
When using a custom character set, it is possible that messages or menu items suddenly become partially or entirely unreadable. This may be due to one of the following causes:

- The Braille character assignments in the custom character set do not correspond to the assignments in the character set used for generating messages shown.
- A custom character set contains errors. For example, if you have deleted a line in a character table, the table no longer consists of 256 definitions. This causes all character definitions following the deleted line to be moved up by one character. This could cause the word "info," for example, to turn into "jmen".

If you cannot read the Actilino's messages at all, you have the following options:

- 1. Use the communications program HTCom's Monitor Mode. Under Monitor Mode, the output is not affected by the Braille character set selected on the Actilino. With the assistance of a sighted person or your screen reader's speech output, you can monitor the output from the Actilino on the PC screen and restore the standard character set. Switching into Monitor Mode is possible only if the screen reader's access to the Braille display has been deactivated.
- 2. Create a situation where you are back in the main menu, so that you can navigate from there to the menu item '(B)raille sets' by using the [TD] key. If you are sure that you are somewhere in the menu system, you can simply press the [TLC] key several times and then [TD] exactly nine times. Then press [TRC], which opens the submenu. Pressing [TRC] again will activate the default character set.

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5.1.10.4 (D)elete selection

If the loadable character set feature is used extensively, all slots will eventually be filled. In order to delete a given Braille character set, please proceed as described below:

- 1. Activate the character set to be deleted in the submenu '(B)raille sets'.
- 2. Open '(B)raille sets' again and move through it to the end.

You will arrive at the menu item '(D)elete selection'. Once you have activated this command, you will be asked whether you really want to delete the character set. If you answer "Yes" the character set selected in the previous step will be deleted and the default character set will be activated.

5.1.11 (I)nfo

You can check flash memory usage and the remaining charge and status of the battery in the '(I)nfo' menu. You can also check the firmware version and serial number and determine the configuration of the external keyboard.

5.1.11.1 (M)emory usage

The Actilino contains 16 GB of text memory which equals text consisting of more than 16 billion characters.

After you select '(M)emory usage', the size of free disk space will be displayed in KB (kilobytes). You can exit this menu item by pressing [TLC].

5.1.11.2 (B)attery stats

This menu provides various data regarding the battery contained in your Actilino. It consists of the three functions described below.

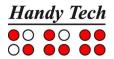
Please note that the values displayed by these functions are not updated dynamically. You should close them by pressing [TLC] and reactivate them with [TRC] in order to display updated information.

5.1.11.2.1 (C)apacity

Here you can check the charging state of the batteries. At the end of the display the available capacity in percent is shown in brackets. The state of charge can have one of the following five values:

- **Fully charged** (x%): The battery is fully charged from 90%.
- **High** (x%): Much more than 50% battery charge remaining.
- **Medium** (x%): About 50% battery charge remaining.
- **Low** (x%): The battery charge is low but still sufficient. We recommend plugging in the charger.
- **Empty** (x%): The battery charge is almost empty, a warning sound appears. Please plug in the charger immediately.
- **not available**: Capacity is unavailable because the battery was removed and after reinsertion no complete discharge and charge cycle was performed.

Note: If the battery has been exchanged without undertaking a battery calibration, the display of the charging state will be wrong. If it says that the battery is fully charged, this is not necessarily right. A reliable capacity tracker will be correct only after a battery calibration.



5.1.11.2.2 (V)oltage

This menu item provides information on the voltage remaining in the battery. The voltage of fully charged batteries is approximately 4.19 V. If the battery voltage falls below ca. 3.0 V, the Actilino turns itself off. You can thus use **(V)oltage** to estimate your battery status. We recommend replacing the rechargeable battery if you notice the voltage decreasing unusually rapidly.

5.1.11.2.3 (S)tatus

This function displays the battery status. This can be one of the following values:

'Running on batteries': The Actilino receives its power from the battery which is being discharged.

'Fast charging': The battery is receiving a high recharge voltage for fast charging from the power outlet.

'Charging': The battery is only receiving a maintenance charge, if the Actilino is connected to a computer via USB

'On USB power': Actilino is connected via USB with the PC. There is no charging nor discharging of the battery. The power is provided by the USB interface.

'On power supply': The power supply is plugged in and connected via a USB cable. There is no charging nor discharging of the battery. The power is provided by the power outlet.

In order to recharge the battery, simply connect the included power supply to the USB C interface. The battery will recharge in six to eight hours. Recharging occurs entirely automatically — it is not possible to overcharge the battery. The Actilino automatically switches from an initially high recharging voltage to a very low voltage just to maintain a full charge.

5.1.11.3 (K)eyboard layout

This function displays the language of the keyboard table currently used by the Actilino. Keyboard tables are available for several languages and the included Keyboard Layout Compiler (BKC) can be used to create custom key assignments.

5.1.11.4 (S)erial number

With this function, you can check the serial number of your Actilino. This can be useful for service purposes.

5.1.11.5 (V)ersions

Here you can check the versions of several software modules of the Actilino.

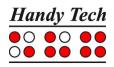
5.1.11.5.1 firmware

You can use this function to display the version number of the firmware. This is the same version number that is displayed when you power up your Actilino in save mode.

5.1.11.5.2 usb host

This module controls the connection of USB devices. At the moment, only USB keyboards are supported.

Operation of the Actilino



5.1.11.5.3 bluetooth

This module deals with the wireless communication via Bluetooth.

5.1.11.6 Maintenance info

Here you can find information about maintenance, repair and delivery dates as described in chapter 3.2 Turning the Power On.

5.1.11.7 System information

This function displays important system information in almost any situation. It is NOT provided as a menu item, but has to be called by pressing [SPC+2 3 4 7 8] or {Shift+Enter}. The following information is displayed:

- Date and time (updated continually)
- Battery voltage
- Free memory

The above information is not displayed in a single message, but sequentially. To move from one line to the next, you must press [TRC]. Pressing [TLC] after the free memory has been displayed terminates the function. [TLC] can also be used to terminate the display at any time. If, for example, you want to see only the data and time, you can press [TLC] immediately after display of the first line and return to wherever you were working before you called the function.

The system information function can be called from almost anywhere (Editor, file list, etc.) in the Actilino. The only exceptions to this are:

The menu "(C)lock" and its sub-menus

The menu " (I)nfo"

The system information function is also not available during communication with other devices (e.g. file transfer) and when a file is being printed.

5.1.12 (O)ptions

The options described below are used for customizing your Actilino's features. The various options are specified by using checkboxes or radio buttons contained in the submenus. You can review additional information regarding checkboxes and radio buttons in chapter 3.3.4 and 3.3.5.

The **(O)ptions** menu is closed as usual by pressing [TLC]. Closing the menu will automatically save the new settings, so that they will still be in force even when the device is turned off and then on again.

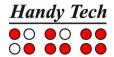
5.1.12.1 (6) dots braille

This option allows you to toggle between 8-dot Braille (computer Braille) and 6-dot Braille. The 6-dot representation suppresses dots 7 and 8. Even if you enter text in 8-dot Braille, e.g. for capitalization, your entries will be saved correctly.

5.1.12.2 hotkeys (A)ctivate objects

If this option is activated, menu items can be activated on the current menu level via hotkeys. This means:

Submenus are opened immediately.



- Checkboxes will change their state.
- Radio buttons will be activated.

5.1.12.3 (H)ighlight hotkeys

When '(H)ighlight hotkeys' is active, the hotkeys are highlighted by being enclosed in round brackets, as in the titles in this section. This is useful when you are working in 6 dot Braille or while you are still learning the hotkeys.

5.1.12.4 show s(Y)stem files

If you activate this checkbox, the system files needed by the Actilino will be displayed in the file list, along with the files created by you.

!!!!WARNING!!!

We recommend not to activate this option. There are several reasons:

- 1. You only need a display of system files under rare circumstances and navigating through the file list will be much faster without them.
- 2. Displaying them also makes it possible to delete system files. You will receive a warning if you attempt to delete system files, however, if you delete, for example the currently used message file, you can no longer work on the Actilino until this file has been restored. You should therefore delete system files only if you are sure you know what you are doing.

You take on a great deal of responsibility by being given the option of deleting system files. Help Tech GmbH therefore accepts no warranty claims arising from any damage caused by deleting system files.

5.1.12.5 show f(O)lders first

This option determines whether the folders or files are listed first in the file list. By default, this option is set which means the folders are listed first. If you want the files listed first, you can deactivate this option by pressing [SPC].

5.1.12.6 (Q)uick entry

If you activate this option, keys [7] and [8] will have a different function: pressed individually, [7] is now the backspace key and [8] by itself is the TRC key. When pressed together with other keys, [7] and [8] retain their original function. For example, [SPC+7] still moves the cursor to the left and capital letters can also be typed as usual.

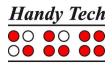
5.1.12.7 show file attri(B)utes

This option controls whether file attributes are displayed on the file list or not. If this option is activated, the file list will show the size as well as the date and time of the most recent access to the file in addition to the file name. This function will slow navigation through the file list a little, however.

5.1.12.8 auto switch e(X)t keyboard

When active, the Actilino automatically switches an external keyboard connected to it into external keyboard mode when the operating mode is set to PC Mode and thus the keyboard can then be used to operate the PC.

Operation of the Actilino



When the Actilino is switched back into menu mode, the keyboard is automatically reset to internal keyboard mode. You can therefore use the keyboard now to write notes on the Actilino.

Switching the external keyboard manually between internal and external operation is affected by entering [SPC+2 5] (Chord :).

5.1.12.9 sW(i)tch Actilino auto off

If this option is enabled, the Actilino is protected by a Power on Protect against accidental switch-on. This means that the Actilino is turning off automatically after 60 seconds if you do not read four characters in a row on the Braille display. However, the automatic switch does not happen when the Actilino is powered by the AC adapter or the USB interface or if it is connected via Bluetooth to a screen reader.

5.1.12.10 (S)tartup mode

Start-up mode determines what the Actilino will do after it starts up in work mode. The startup mode options are provided in the form of radio buttons. One of the four possible settings described below is always active.

5.1.12.10.1 (M)ain menu

After start-up, the Actilino opens the main menu. From here, you can manually navigate to the various submenus. This setting represents the classic Actilino operation.

5.1.12.10.2 auto(N)ew

This option makes use of the Actilino's capability to automatically open a new, empty file within the Editor immediately upon start-up in work mode. This option comes in handy if you frequently use the Actilino for entering notes in a new file after switching it on.

5.1.12.10.3 auto(E)dit

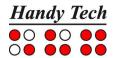
This option activates the Actilino's capability to automatically open the most recently closed file in the Editor upon start-up in work mode. After opening the file, the cursor will be at the same position it was at when the file was closed. Please note that this option will not open the file that was last opened, but the file that was last edited and saved.

This option is the most useful one if you frequently use the Actilino to make notes in the same, already existing file after switching it on.

5.1.12.10.4 (P)C mode

This feature enables the Actilino to automatically activate its PC Mode after starting up in work mode, so that the display is immediately available to a screen reader, this is similar to manually activating the menu item PC mode.

You cannot utilize the system's internal functions, such as the Editor, until you have switched back to internal mode. You can reactivate internal mode by pressing [SPC+1 3 4] (Chord m) for about half a second.



5.1.12.10.5 c(A)lculator

This option activates the ability of the Actilino to automatically start the calculator function when it is switched on in work mode. We recommend using this option if you plan to use the Actilino primarily for calculations in the near future.

5.1.12.11 (T)one signals

The Actilino generates a range of sounds in certain operational conditions in order to alert the user unmistakably to successes, errors or critical situations. Depending on the user's experience or the location in which the Actilino is being used (e.g. seminar room, commuter train), these sounds may be inconvenient or even annoying. The Actilino therefore features various levels of sound outputs.

The tone signal options are provided in the form of multiple checkboxes. These signal tone settings apply only within work mode. In SAVE mode all signal tones are turned on.

The various levels listed below come into effect after the Actilino's start-up sound has been played. Any errors or warnings during start-up are generally of a more serious nature and will therefore always be indicated. These 4 checkboxes are activated by default.

5.1.12.11.1 (E)rrors

The Actilino generates a tone only if an error has occurred. In addition to internal errors, errors can also result from operator mistakes, but these are usually not indicated by any message in Braille.

5.1.12.11.2 (W)arnings

The Actilino generates a tone only in case of warnings.

5.1.12.11.3 action (C)onfirmations

The Actilino plays a sound signal if a complex action, such as opening a file in the Editor, has been successful.

5.1.12.11.4 Battery warning

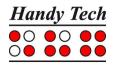
If the power supply of the battery reaches a critical value, the Actilino reminds you to save your data in time and recharge your battery every minute. If the capacity of the battery is known by the Actilino, the alert will be played when the estimated runtime is less than 30 minutes. Whether the battery capacity is known can be seen in the menu **(I)nfo**.

If the capacity of the battery is unknown, the alert will be played if the voltage of the battery is less than 3.4 V.

5.1.12.12 (D)ate and time format

Any settings specified here will affect the entire System, including the Editor. If you specify the 12-hour format, the time will be displayed in the 12-hour format everywhere; otherwise the 24-hour military time format will be used. Also, if English dates are specified, the international convention for date (month first, then day) and time will be used.

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5.1.12.13 (I)nput indication

By changing the search direction within a Braille table, it is possible to input language specific characters using the same Braille dot combinations that are also used for normal alphanumeric characters.

For example, in Arabic the dot combination 1 2 4 is used for a certain Arabic character. The same dot combination is also used for the letter "f". In the Arabic Braille table consisting of 256 characters, you find the Arabic letters beyond position 128. To enable the user to enter Arabic characters by using a specific dot combination, it is possible to change the search direction in the table. The Braille table will then be searched for the matching character from end to beginning instead of the standard forward search direction (i.e. searching from position 0 to 256). In case of Arabic, when using the backwards search direction, the corresponding Arabic character can be found when entering a certain Braille dot combination for a Latin character. In order to change the search direction, there are the following two chord commands:

- [SPC + 2 3 6] activates the backwards search direction which is indicated by a low-pitched tone.
- [SPC + 3 5 6] activates the forward search direction which will be indicated by a highpitched tone.

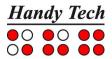
In order to have an indication which search direction is activated, this option allows you to set an indicator signal. Using a radio button, one of the following three settings can be activated:

"(N)one": No indicator tone will appear when entering Braille dot combinations.

"(L)atin mode": When entering a Braille dot combination with active forwards search direction, a deep indicator tone appears.

"n(O)n latin mode": Entering a Braille dot combination with active backwards search direction, a high-pitched signal tone will appear.

We recommend pre-setting the search direction for the type of characters you normally use. For example, for entering Arabic text it is better to activate backwards search direction. For the Indicator tone we recommend selecting "(L)atin mode". When entering Latin characters in Arabic text, a signal tone will appear. If you use a Braille table from Handy Tech, the search direction is automatically set in the right way.



5.1.12.14 dot (F)irmness

While reading text, it can be helpful to adjust the dot pressure of the Braille pins to your individual needs. You can choose between the three settings "(S)oft", "(M)iddle" and "(H)ard". The default setting is "(M)iddle".

Experienced Braille readers often read the Braille cells with a light touch. Here we recommend using the setting "(S)oft". This setting also improves the detection of the reading position by ATC.

You can also adjust the dot firmness within the setting dialog of the Handy Tech Braille driver (see chapter 8.5). Please be aware, that the settings are saved on the device, not on the PC.

5.1.12.15 atc s(E)nsitivity

When using ATC, we recommend adjusting the ATC sensitivity to your individual needs. You can choose a value between 1 and 7. The standard setting is "7".

Note: If the automatic scrolling via ATC is not working properly, we ask you to adjust the ATC sensitivity.

5.1.12.16 sta(N)dby

With the option standby, you can set the time delay for the activation of the sleep mode. This will save battery life and lower power consumption. If you switch it off, the Actilino will not shut down. For activated standby you can choose a delay of 15, 30, 45 or 60 minutes. If you do not work with the Actilino or press any button, the Actilino will automatically switch off. The Braille display shows "sta(N)dby", which is slowly fading out. When you press any button in standby the Actilino wakes up and you can continue to work. No data will be lost when the sleep mode becomes active. The default setting is 15 minutes.

5.1.12.17 Language

Hereby you have the possibility to change quickly between different system languages without having to upload the firmware again. In addition to the menu language, the keyboard layout and - if available - the Braille table will be switched automatically. For some languages, however, only English is available as menu language (marker: Engl).

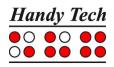
If you happen to choose a foreign language which you cannot understand, you can change the language by pressing and holding a letter for 20 seconds while switching the device on: d for German, e for English, u for US English, n for Norwegian, s for Swedish and f for French.

5.1.12.18 Mass storage

If this checkbox is checked, you can access the Actilino directly from your computer. Hereby, the Actilino is identified as an externally connected drive from your computer. You can, delete, rename or move files using the Windows Explorer or exchange files between the Actilino and the computer. Please be aware that data, which was not transferred to the Actilino via HTCom, may not be readable by Actilino.

Note: If you have changed this option, the change will not be active after quitting the **(O)ptions** menu but after switching the Actilino off and back on again. Please be aware that you should not change or delete the data in the folder HTSYS as we cannot guarantee for the functioning of the Actilino if you do.

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5.1.12.19 Battery charge enable

If this checkbox is not checked, the battery will not be charged via the USB interface of the connected computer. This is helpful to save the battery of a laptop, if you are traveling and do not have access to a power outlet. However, if the voltage of the Actilino's battery is less than 3.6 V, it will nevertheless be charged with minimum charge current (100 mA). Independent of this option's setting, the battery will be charged by the wall power supply anytime with the maximum charge current, when the device is off.

5.1.12.20 Low energy braille output

If this function is activated, the power consumption of the Braille display is lower, and the Braille pins hit a bit softer.

5.1.12.21 Battery calibration: see manual

If you insert a new battery, it is possible that the display of the capacity is not correct. However, this does not apply if you remove and reinsert the battery. To make it work correctly again, the battery has to be discharged and then charged completely. However, the calibration usually takes 20 hours! During this time, you cannot work with your device. For this purpose, the Actilino has to be connected to the included wall power supply to guarantee a steady power source. The battery calibration can only be activated on the menu item "Battery calibration: see manual" by pressing the keys [SPC + 1 4 7] (Chord C). First you will read "(O)ptions" and a few seconds later "charge, USB on". Then the battery will be charged, discharged and then charged again completely. While discharging, the Actilino works with minimum power consumption. During the process the Braille pins will be set and reset in quick succession. At the end of the calibration process, the Braille display shows:" aa:bb e:ff g,gV ", in which a,b,f and g stand for numbers.

The calibration of the battery can be interrupted by pressing the cursor routing keys CR16, CR15, CR16, CR15 one after another. The display of the capacity will still not be correct. The battery charging state depends on the time of the interruption.

5.1.12.22 (R)estore factory defaults

By pressing the [TRC] key over this item, you can restore factory defaults for all options. Actilino will prompt you whether you are sure to proceed.

The default settings are as follows:

(6) dots braille: off

hotkeys (A)ctivate objects: off

(H)ighlight hotkeys: off show s(Y)stem files: off show f(O)lders first: on

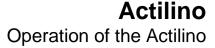
(Q)uick entry: on

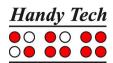
show file attri(B)utes: off auto switch e(X)t keyboard: on sW(i)tch Actilino auto off: off (S)tartup mode: (M)ain menu

(T)one signals: on to all

(D)ate and time format: 12-hours and English Dates: on

(I)nput indication: off dot (F)irmness: (M)iddle

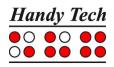




atc s(E)nsitivity: 7 sta(N)dby: 15 minutes

Language: remains unchanged
Mass storage: on
Battery charge enable: on Low energy braille output: off

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5.2 The Editor

The Editor allows you to read and edit files. Up to five files can be open at the same time. Any file can be opened from within the Editor if the exact name of the file is known.

5.2.1 Overview of Editor Functions

The Editor provides the following features:

- Text input, moving the cursor and setting bookmarks
- Quick transfer of files or text blocks from the Actilino to a connected device
- Insert, overwrite and read-only modes
- Status display
- Block functions (copy, cut, paste, change mark and cursor)
- Text search functions, both forward and backward
- Replacing of text (forward direction only)
- Calculator within the Editor
- Opening additional files and switching between files
- Suspending the Editor temporarily while attending to other tasks
- Closing and saving files
- Help
- Setup menu for the Editor
- Automatic scrolling while reading with ATC.

The following paragraphs describe each of these features in detail.

5.2.2 Dialogs and Confirmation of Actions

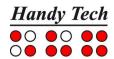
For many functions, the Editor provides a dialog to allow you to select or enter the desired value. In addition, the Editor provides confirmation messages in order to inform you about the results of your actions.

While you are in a dialog field, the Editor features several functions to help you enter values quickly and efficiently:

- The Paste command [SPC+1 2 3 6] (Chord v) allows you to copy the current contents of the clipboard directly into the field.
- A parameter's default setting or the most recent setting of that parameter can be restored using the Copy command [SPC+1 4] (Chord c).
- The text contained in a field will be deleted starting from the cursor position to the end of the field if you enter the Cut command [SPC+1 3 4 6] (Chord x).
- If you move the cursor towards the right within an input field, the existing input characters will not be deleted. Therefore, you only need to enter the characters that you want to change.

You have several options for exiting any dialog or message:

- 1. You can confirm your input with the [TRC] key which activates the desired function.
- 2. If you press the [TLC] key, you can close a dialog without committing any changes or exit a message when you have finished reading it.
- 3. You can simply wait a short time, until the dialog or message closes automatically. The duration of the timeout can be customized in the Editor's setup menu.



The Editor uses the following tone signals to alert you to successful actions or to errors. (You can turn off the tone signals in the Actilino's "(O)ptions" menu.)

- Confirmation (single beep): A function has been executed successfully.
- Warning (two short, high beeps): Sounds if no input has occurred for longer than
 expected or when the display's contents have changed, for example because a status
 message has been issued. The warning signal also sounds if you attempt to move
 the cursor beyond the beginning or the end of the file.
- Error (several consecutive warning beeps): Alerts you to the fact that an error message is being displayed.

5.2.3 Entering and Deleting Text

The input keys are used to enter Braille. If you have entered a valid character, that character is displayed at the cursor position. The cursor is represented as dots 7+8 on the Braille display. When a character has been entered, the cursor moves to the next position. After a character has been entered in the last position on the display, the cursor returns to the first Braille position. The length of a line is not limited while entering text. You can specify the end of a line at any time by pressing the [TRC] key.

To delete any character, you can either use Backspace [SPC+1 2] to delete the character to the left of the cursor or Delete [SPC+4 5] to delete the character at the cursor position. If the delete function you entered is not possible because you are at the beginning or end of a text file, you will hear the warning tone which indicates that this action is not possible.

You can insert the current date into the text by entering {Ctrl+d} or [SPC+1 4 5], while inserting the current time is effected by entering {Ctrl+t} or [SPC+2 3 4 5].

5.2.4 Reading Text

You can navigate to the left with the [TU] key and to the right with the [TD] key for reading text. If an external keyboard is connected to the Actilino, you can also use the navigation keys on the keyboard. A tone indicates that you have reached the beginning or the end of the text. The specific functioning of the reading keys can be customized in the Editor's setup menu.

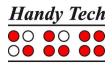
If you have been reading the text and want to return to the cursor position, you can accomplish this by simply pressing the [TLC] key. Alternatively, you can just begin to enter text or execute other types of actions. The Actilino will then automatically display the area where the cursor is located. On the other hand, you can also quickly move the cursor to your current position by using the cursor routing keys and then continue to enter changes there.

If a word does not fit at the end of the display, you can instruct the Editor in the Setup menu to automatically suppress that word and display it in full on the next line after moving the display towards the end of the text.

It is also possible to have the current character displayed in various ASCII formats (hexadecimal, octal representation). This function is initiated with the [SPC+1 4 5 6] (Chord D) command. To exit this display mode, simply press the [TLC] key.

The Editor also provides an automatic reading mode. In this mode, the text scrolls forward automatically by one entire display line. The reading speed can be adjusted individually in

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the Editor's Setup menu, but you can also adjust the speed while you are reading by using the [TU] or [TD] key. To activate automatic reading mode, enter [SPC+TD]. The cursor is not moved along with the text during automatic scrolling. Pressing any cursor routing key will position the cursor at that location within the text and stop the automatic scrolling. You can also move the display section manually by pressing the [SPC] key without affecting the automatic scrolling speed.

5.2.5 ATC within the Editor

With [SPC + 1 7] (Chord A) you can activate and deactivate the automatic scrolling via ATC. The Actilino emits an acoustic confirmation tone when the ATC function is switched on/off. Using ATC, the Actilino detects when you have read the last Braille character displayed and scrolls on automatically without pressing any button.

With this version, we have further improved the reading experience by providing additional convenience features. These are all turned off by default but can be toggled using their respective chord commands.

- 1. End of line marking: This feature will display a full form at the end of the displayed text if the line is not already completely filled. Using this function, you always know when you have reached the end of the currently displayed text. You can toggle this function by pressing [SPC + 1 6].
- 2. Waiting longer for shorter lines: Some users reported that short lines of text tend to scroll off the display too quickly. When this feature is turned on, the Actilino will wait slightly longer before scrolling beyond a short line of text. Use [SPC + 1 2 6] to toggle this function.
- **3. Tone signal:** Plays a short beep every time the display scrolls automatically. This can be toggled with [SPC + 1 4 6].
- 4. Flicker: This feature causes the Braille display to be cleared for a short time before automatic scrolling takes place. The effect can be described as similar to what a sighted user would experience with a flickering display. This is less obtrusive than a tone signal but still makes it easier to determine when the display scrolls. To toggle Flicker on/off press [SPC + 1 4 5 6].

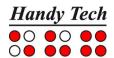
5.2.6 Moving the Cursor

To move the cursor without changing any text, you can use the so-called cursor routing keys. These keys, also known as [CR] keys, are built into the Braille elements. A small fin on the Braille elements is used to press the [CR] keys. The [CR] keys' shape is designed to facilitate navigation.

If you attempt to use the [CR] keys to move beyond the end of a line, the Actilino will beep and the cursor will be positioned such that you can continue to enter characters.

The Editor provides the following functions for moving the cursor:

- When you enter [SPC+1 2 3], the cursor jumps to the top of the file. Use [SPC+4 5 6] to move the cursor to the end of the file.
- You can move the cursor to the beginning of a sentence by entering [SPC+2] or to the beginning of the next sentence by entering [SPC+5]. The cursor will move to the nearest period, colon, exclamation mark or question mark.
- You can also jump to the front or back of the current line of text by entering [SPC+1 3] to move to the front of the line and [SPC+4 6] to move to the end of the line.



 After entering [SPC+3], the cursor jumps to the beginning of the previous word and after entering [SPC+6], it jumps to the beginning of the following word.

The cursor can also be moved one character at a time as follows:

- with [SPC+7] one character to the left
- with [SPC+8] one character to the right
- with [SPC+1] one line up
- with [SPC+4] one line down

If you move the cursor towards the left past the beginning of a line, the cursor is positioned at the end of the previous line. If you move it past the end of a line, moving towards the right, it will be positioned at the beginning of the next line. When you move the cursor up or down, it is always positioned at the beginning of the corresponding line.

Please note that tab characters are displayed as a certain specifiable number of spaces. Tabs are saved in the file either as tab characters or they can be replaced by a number of spaces. You will find more detailed information regarding tabs in chapter 5.2.24.13 seqq. If a tab is saved as a tab character in the text and you move the cursor to the first position of the tab and on through the tab, the remaining spaces will be skipped and the cursor moves directly to the first position after the tab. If you position the cursor inside a tab using the CR keys, it will be positioned at the tab's first character and a warning tone will also be issued.

It is also important to remember that jumping by words or sentences may be difficult or impossible in grade two texts because words can contain punctuation marks.

When a file is closed, the current cursor position is saved. When you open the same file again later, the cursor will be positioned at the same location it was in when the file was closed. However, in certain cases the saved cursor position may be lost. Further information may be found in chapter 5.2.19.

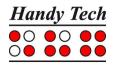
5.2.7 Editing Modes (SPC+2 4 = Chord i)

By entering [SPC+2 4] (Chord i) you can toggle between insert and overwrite mode. The default is insert mode, i.e. entered characters are inserted at the cursor position and the following text is pushed back. In overwrite mode, the present text is overwritten by entered characters after the cursor position. When you reach the end of a line in overwrite mode, any additional input characters will be added to the line, without overwriting the next line. If you want to delete a section of text that consists of more than one line, it would therefore be easier to mark that section as a block and then delete it. You can subsequently enter your new text in insert mode.

Insert and overwrite mode are indicated by different cursor shapes. In the default insert mode, the cursor is an underline (dots 7+8), while appearing as a block cursor (all 8 dots) in overwrite mode. Both cursor shapes blink. You have the option of assigning different cursor shapes in the setup menu but only these two shapes are possible.

There is one more editing mode, the read-only mode, in which the text can only be displayed, not modified. If you are in read-only mode and attempt to enter text, the Actilino will only generate warning beeps. Read-only mode is specified while opening a file and once the file

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has been opened, the editing mode cannot be changed. You can set a file to read-only mode in the Editor's Setup menu or you may open any file in read-only mode from within the Editor.

5.2.8 Calculator function

If you wish to carry out a calculation while you are writing a text, you can do this directly in the Editor. Simply enter the expression anywhere in the text and press [SPC+2 3 5 6] (Chord =) or {Ctrl+Shift+Enter}. The expression is evaluated and the result is inserted into the text, taking the current settings of the options "Result Position" (see section 5.2.24.7) and "Keep Expression" (see Section 5.2.24.8) into account.

Example:

My office has a floor area of 3.2*4.1 = 13.12 square metres.

Remember that you may not enter spaces in a calculation expression. For further details see section 5.1.3 c(A)lculator.

Note:

If you modify a previously calculated expression and have it evaluated again, the new result will be inserted into the text without deleting the old result. For this, the cursor must be located within the calculation expression.

5.2.9 Status Display (SPC+2 3 4 7 = Chord S)

The [SPC+2 3 4 7] command allows you to activate the Editor's status display for the current file. The following information is displayed in list form:

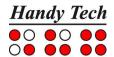
- The name of the current file
- The current editing mode (insert, overwrite, read-only)
- The file's modification status (modified or not)
- The beginning and end of a marked block
- The position of the character in the text which is the current cursor location
- The number of the current column

5.2.10 **Set Mark (TU+TD)**

By pressing [TU+TD] at the same time, the current cursor position is remembered as a "mark". You can use this mark like a bookmark to easily find that place in the text. Up to 10 marks can be set for any file.

A dialog will open asking you for the name of the mark. You can enter up to 24 letters or you can select a name from the list of marks you have already created for this file. By pressing [TRC] the mark will be set and remembered under the designated name. If you have entered a name which already exists as a mark, you will receive a message asking whether you wish to overwrite that mark. By confirming you permit the overwriting of the previous mark. If you have already set 10 bookmarks, your only options are to select and rename or overwrite one of the existing marks. If you select the name of an existing mark at the beginning of this dialog, you will not receive any additional questions about overwriting that mark. When a mark has been set, a beep confirms your action.

If you edit the text after you have set a mark, the position of the mark will be adjusted to reflect such changes. This means:



- If you enter or delete any text, all marks located between the cursor position and the end of the text will be adjusted accordingly. When you jump to any mark, you will move to the desired location.
- If you delete a character which had been set as a mark, the mark will still be retained.

5.2.11 Jump to Mark (SPC+1 3 4 = Chord m)

Entering [SPC+1 3 4] (Chord m) lets you jump to a mark you have previously set by pressing [TU+TD]. A list of all available marks will be displayed, and you will be positioned at the end of the list. Now you can navigate through the list by moving the cursor up and down or you can enter the name of the desired mark. If you move down after opening the list, you will reach the top of the list.

To jump to the selected mark, press [TRC]. The Editor keeps track of the position from which you jumped to the mark as the beginning of a block. This enables you to return to your original position immediately. How to use blocks is described in the sections below. If you entered a name which does not exist as a mark, you will receive the message 'Bookmark x does not exist'. You can now enter or select a new name. If no marks have been set in the current file, you will be notified with a message 'No bookmarks set'.

Please note:

In certain situations, your previously stored marks may no longer be available. You will find details about this in chapter 5.2.19.

5.2.12 Delete Mark (TU+TD, Select Name, SPC)

If you want to delete a mark, activate the function for setting a mark by pressing [TU+TD] at the same time and then select the mark you wish to delete from the list using [SPC + 1] or [SPC + 4]. Enter a space to delete the name of the mark, then press [TRC]. You will be asked whether you really want to delete the mark. If so, answer with [y] and the mark will be deleted.

5.2.13 Block Functions

This feature enables you to work with entire blocks of text at a time. The procedures for working with blocks resemble those familiar from modern PC operating systems:

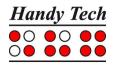
- You mark a certain selection of the text.
- The selection may be either copied or cut and is temporarily stored on a clipboard.
- From here, the selection may be pasted at a different place in the same file or even in another file.
- You also have the option of saving a marked text block directly to a new file.

A block can also be deleted or pasted into a new file or an input field. Block operations sometimes cause the Editor to run slow. The following paragraphs describe the use of blocks in detail.

5.2.13.1 Marking the Beginning of a Block [SPC+TRC]

To mark the beginning of a block, place the cursor at the desired position and enter the key combination [SPC+TRC] or press the cursor routing key twice. You do not need to set a special mark for the end of a block. Simply move the cursor one position to the right of where you want the block to end and press the cursor routing key. While moving the cursor, you

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will notice that all text between the beginning of the block and the current cursor position appears underlined with dots 7 and 8.

Let us assume you had typed the text "This is a test" and wanted to mark the words "This is" as a block. Before undertaking any block operations, the cursor should be moved to the space between the words "is" and "a".

Marking text as a block is possible in either direction. You can therefore set the beginning of a block and then move back towards the top of the file. In this case, the end of the block is located just left of the cursor. In other words, the character at which the cursor is currently located is part of the block.

Instead of marking a block by moving the cursor character by character, you can also jump from a desired block location to a mark. Another way to quickly mark off a block is by using one of the search functions described below, if the first word appearing after the desired block is known. Simply mark the beginning of the block by pressing [SPC+TRC] simultaneously and then execute a search for that word.

If you press the [TLC] key while marking a block, the underlines indicated by dots 7 and 8 will be removed, but the beginning of the block is still saved. If you change your mind and decide to copy or cut the marked text block after all, you must first restore the underlining. To do this, you can use the function "Exchange Mark and Cursor," which is described in chapter 5.2.13.5. After activating this function, the underlines reappear, and the cursor will be located at the beginning of the block. Activating the function again will position you at the end of the block.

5.2.13.2 Copy (SPC+1 4 = Chord c)

Once you have positioned the cursor at the end of the block, you can copy the block to the clipboard by entering [SPC+1 4] (Chord c). A message from the Editor displays the percentage of the block that has been written to the clipboard.

The Copy command has a different meaning while you are in an input field: It will restore the default settings.

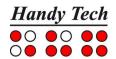
5.2.13.3 Cut (SPC+ 1 3 4 6 = Chord x)

You can cut a block with [SPC+1 3 4 6] (Chord x). This results in the block being deleted from the file and stored on the clipboard. While cutting the block, the Editor informs you about the percentage of the block that has been written to the clipboard.

If you enter [SPC+1 3 4 6] (Chord x) while you are in an input field, all characters from your current cursor position to the end of the dialog field will be deleted.

5.2.13.4 Paste (SPC+1 2 3 6 = Chord v)

Any text contained in the clipboard can be pasted at the current cursor position by entering [SPC+1 2 3 6] (Chord v) or you can open another file and paste the selection there. Please remember that the block is always pasted exactly before the current cursor position. Since pasting does not delete the block from the clipboard, you can paste a block several times over. The Editor displays a percentage while pasting, indicating how much of the block has already been written and that it is being written from the clipboard.



The paste command can also be used for writing to input fields. For example, if you want to use a chapter title as the name of a bookmark, you can mark that title in the file as a block, copy it to the clipboard with [SPC+1 4] (Chord c), then move the cursor to the desired position for the mark, press [TU+TD] and respond to the dialog prompting you for the name of the mark with [SPC+1 2 3 6] (Chord v).

The contents of the clipboard remain intact as long as the Actilino is in operation, so that you may paste several times, including into other files. However, once the Actilino is turned off, the contents of the clipboard are deleted upon turning the device back on. The memory available for the clipboard is limited by the remaining free memory in the file system.

5.2.13.5 Exchange Mark and Cursor (SPC+78)

You can use this command to return to your original position after executing the following functions:

- When you have jumped to the beginning or end of the file.
- When you have marked a text block in order to copy or cut it. In this case, you will return to the beginning of the block, where you can use one of the block functions.
- When you have pressed [TLC] while marking a block.
- When you have pasted text from the clipboard into the file.

The Exchange Mark and Cursor function will set a mark at your current position in the text and the cursor will be returned to the position it was in before one of the functions listed above was executed. The section of text between this mark and the cursor will now be marked as a block. You can easily cancel the underlines if desired by pressing the [TLC] key.

If you enter the command again, the previously set mark and the cursor position will be exchanged again. You can therefore use this function to jump from the beginning to the end of your text block and back or to jump back and forth between your current and the previous cursor position.

5.2.13.6 Deleting a Text Block (SPC+ 1 3 4 6 7 = Chord X, SPC+1 2 = Chord b)

If you want to delete a large section of text which you do not want to paste anywhere else, you can enter the [SPC+1 3 4 6 7] (Chord X) command which cuts the block without writing it to the clipboard. Alternatively, you can also use the backspace command (SPC+1 2 = Chord b). Again, you will be notified in terms of a percentage value that the text is being deleted.

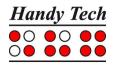
5.2.13.7 Saving a Block to a File (SPC+2 3 4 = Chord s)

When you have marked a block, you can save it in its own file by using [SPC+2 3 4] (Chord s). The text block will not be deleted from the current file. Additional details regarding the saving of files are contained in chapter 5.2.19.

5.2.14 Searches

You can look for a search string in a text file in two different ways: with an incremental search or with a buffered search. Both searches can move either forwards or backwards. Any search begins at the cursor position.

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5.2.14.1 Incremental Search (SPC+1 2 4 = Chord f)

The command [SPC+1 2 4] (Chord f) initiates an incremental search for a certain text in forward direction, i.e. moving from the current cursor position towards the end of the file. The message 'I-Search:' appears, followed by the cursor. As you enter the search string, the search already begins. You are automatically positioned at the first occurrence of the search string you have entered so far. If you erase a character from the search string using the delete command, you are transported backwards to the place where the remaining search string can be found. While the search is in progress, the entered string is displayed as blinking. If the search string cannot be found, you will receive the following message: 'Search failed, wrap around (Y/N)?'. If you answer by entering [y], the same search begins again from the beginning or end of the text, respectively. If the search string still cannot be found, you will receive the same message again. You can now enter [n] to end the search.

When the desired string has been found, press [TRC] to continue editing your text at that location.

If you want to search a string starting at the beginning of the text, you can first move the cursor to the beginning of the text with [SPC+1 2 3]. By entering [SPC+1 2 4] (Chord f), the search will be repeated, and the last search string will already be entered. If you are at the first occurrence of the desired string, you can immediately reinitiate the same search by pressing [SPC+1 2 4] (Chord f) again, as long as you do not press [TLC]. However, this only applies to the current editing session. Once the Editor is closed or the Actilino switched off, the search string will be deleted.

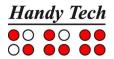
Any search can be aborted while entering the search string or during the search by pressing the [TLC] key. Every time the text is found, a signal tone sounds, and the cursor will be placed one character to the right of the found search string. You can make the search case sensitive if you change the corresponding setting in the Editor's setup menu.

5.2.14.2 Buffered Search

A buffered search means you first enter the entire search string and the search does not begin until you press [TRC]. To initiate a buffered search, enter the command for an incremental search, [SPC+1 2 4] (Chord f), followed by [TRC]. You will then receive the message 'Search:'. Enter the search string. The search begins when you press [TRC] again.

To indicate the difference between an incremental and a buffered search, the Actilino displays 'Search:' while you enter the search string. An incremental search is indicated by the prefix "I", a search in reverse direction will be trailed by the word "back". If you are executing an incremental search in reverse direction, the prompt for entering the search string will look like this: 'I-Search back:'.

When the search string has been found, the cursor will be at the first character of the search string and you can immediately begin working, without having to first press [TRC] as you would need to in the case of an incremental search. If you want to repeat the search, please position the cursor to the right of the found string and then activate another buffered search as described above.



5.2.14.3 Backward Search (SPC+1 2 4 7 = Chord F)

With [SPC+1 2 4 7] (Chord F) you can initiate a backward search through the text towards the beginning of the file. The procedures are the same as for a forward search. When the search string has been found, the cursor will be located at the first character position of the search string. In both types of searches described above, you can even change the direction of the search during the ongoing search by entering the appropriate command after being placed on the search string.

5.2.15 Replace (SPC+1 2 3 5 = Chord r)

If you want to search and replace a term, enter the command [SPC+1 2 3 5] (Chord r). Just as in a buffered search, you will be asked to enter a search term. The message 'Replace:' appears on the Actilino. Enter the search term. By pressing [TRC], you indicate that you have finished entering the search string and the message 'Replace x with:' appears instead, (x is the previously entered search string). Type in the text with which you want to replace the search term. Again, as in a search, pressing [TRC] initiates the replacing procedure. When the first occurrence of the search string has been found, you will be positioned at that place in the text. You now have the following options:

- Enter [y] to replace the search string with the replacement text.
- If you enter [n], you will move on to the next occurrence of the search string and the previously found text will not be replaced.
- If you enter [g] for global replace, the found and all subsequent occurrences of the search term will automatically be replaced without a prompt. During this procedure, the message 'Replacing, please wait...' is displayed. When the Editor has reached the end of the file, it indicates how many occurrences of the search string were replaced. The message 'Replaced n occurrences' appears, where n is the number of occurrences of the search term that were replaced.

When replacing the setting of the option "Find Exact" (see Section 5.2.24.9) has no influence. You have to enter the exact expression for the replace function.

Replacing is only possible in forward direction, from the cursor position towards the end of the file.

5.2.16 Opening Additional Files

More than one file can be open within the Editor at the same time. There are two methods available for opening a file from within the Editor:

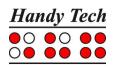
- 1. Within edit mode: The file can be edited after it is opened.
- 2. In read-only mode: The file is write protected and cannot be edited.

Files may be opened from within the Editor as follows:

- 1. The [SPC+1 3 5] (Chord o) function opens a file which can then be edited. The Actilino will show: 'Open file:'.
 - Alternatively, you can open a file in read-only mode with [SPC+1 3 5 7] (Chord O). This file cannot be modified. This is indicated by the prompt **'View file:'**.
- 2. Enter the name of the file to be opened in the input field. Please remember that the file name must be entered exactly as it is stored on the Actilino, otherwise the file is not found and cannot be opened.
- 3. After pressing [TRC], the file will be opened.

If you do not know the precise file name, suspend the editor with [SPC + 1 2 3 4 5 6] (see chapter 5.2.18) and select the file from the file list.

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There are several possibilities here:

- If the file name does not exist and you are opening the file in edit mode, the Editor assumes that you wish to create a new file under the name you entered.
- If you are attempting to open a file in read-only mode and the file name does not exist, the message **'File x not found'** will appear, where x is the file name entered.
- If you are opening an already open file, the Editor will simply switch to that file without reloading it.

5.2.17 Switching Between Open Files (SPC+5 6 8 or SPC+2 3 7)

If you have several files open, you can switch between them with [SPC+5 6 8] or {Alt+Tab}. Let's assume you have opened three files in the following sequence: "a.txt" first, "b.txt" next and "c.txt" last. You are reading "c.txt" at the moment. If you enter [SPC+ 5 6 8] now, you will switch over to the "b.txt" file. A message **'Current file:'** followed by the file name notifies you of the name of the file you have switched into. If you enter [SPC+5 6 8] again, you will subsequently be in "a.txt," the next time in "c.txt" again and so on. If you want to work in or read the current file, you must first press [TRC].

Using [SPC+2 3 7] or {Alt+Shift+Tab} allows you to switch between open files in the reverse order. This is even possible after closing a file, when the message **'Current file:'** appears.

Note:

A file can only be transferred to the PC if it is not open in the Editor! Before it can be transferred, it must be closed and saved.

5.2.18 Suspending the Editor (SPC+1 2 3 4 5 6)

You can temporarily suspend the Editor with [SPC+1 2 3 4 5 6], for example if you want to change menu settings, check the battery status or other indicators or delete a file. When you suspend the Editor, you will automatically return to the main menu, where all menu options are available to you. You can even enter PC Mode. The first few positions of the Braille display will show the symbol '-E-'. This is to remind you that the Editor is still open. It may be a little irritating that the menu items are only displayed following this symbol but it could be extremely annoying for you if you inadvertently lose data because you did not remember that the Editor is still open and that your data have not been saved and switch the Actilino off.

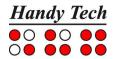
To return to the Editor, enter [SPC+1 2 3 4 5 6] again. It should be noted that you can only return to the Editor from the main menu.

!!!IMPORTANT!!!

Never attempt any file transfers with the Editor open or suspended. The active or suspended Editor utilizes certain regions of memory which are needed during file transmissions for processing data. Also, the transfer of certain files causes the Actilino to restart. Any open files would not be saved, and all changes would be lost.

5.2.19 Saving Files (SPC+2 3 4 = Chord s)

To save a file without closing it use [SPC+2 3 4] (Chord s), you will then receive the following notification 'Save file:' followed by the name of the file. If you have loaded this file into the Editor, this would be the name of the current file. If you created the file you are saving, the default file name will appear. This default file name is usually a suggestion made from the



first few words at the beginning of the text. It can consist of up to 20 characters. If the Editor fails to generate a suggested file name, the default file name is 'untitled'.

If you press [TRC] now, the file will be saved. However, you also have the option of overwriting the given file name in part or entirely, if you want to save the file under a different name. If you do this, please remember the following:

- All changes to the file made after it was saved apply only to the file with the name you specified while saving it. If you save a file called "Text1.txt" under the file name "Text2.txt," you will be editing "Text2.txt" after the save. Therefore, if you want to save a file temporarily in its current state, you should proceed as described below.
- If you do not make any changes to the file name or if you enter a name that does not yet exist, the file will be saved without any further prompts when you press [TRC].
- If you enter the name of an already existing file, the following prompt will appear: 'File x exists, overwrite (Y/N)?'. You can either agree to overwrite the file by entering [y] followed by [TRC] or decline, either by answering [n] followed by [TRC] or by pressing [TLC].
- A file name may not be longer than 255 characters and contain no special characters (:*?"<>|+,;=[]\lambda). The entire path including all the folders but not counting the file name may not be longer than 259 characters.

Please note:

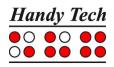
If you have marked a text block, this save function will not apply to the entire file, but only to the marked text block. This is indicated by the dialog **'Save block to file:'**, followed by the file name.

As mentioned above, if you want to save a temporary copy of your text under a different name in its current state, please proceed as follows:

- 1. Move to the top of the file with [SPC+1 2 3].
- 2. Set the beginning of a block with [SPC+TRC].
- 3. Move to the end of the file by entering [SPC+4 5 6].
- 4. Activate a save operation with [SPC+2 3 4] (Chord s).
- 5. Enter the name under which you wish to store the current status of your file.
- 6. Press [TRC]. The file will be saved but the new file will not be loaded.

As soon as you undo the block markings by pressing the [TLC] key and activate the Save command again, the dialog described at the beginning of this chapter appears and the save operation now applies to the entire file again.

When a file is closed and saved, all marks set for that file as well as the current cursor position will be remembered. If a file is then transferred to a PC, edited on the PC and then retransmitted to the Actilino, the marks and current cursor position are no longer valid. In addition to the marks and the cursor position, the Actilino also notes the file's current size while saving it. When the file is opened again, the Actilino checks the size to see if it is the same as that recorded at the last save. If it is, the marks and the cursor position will be restored. If the current size deviates from the size noted before, the Editor assumes that the file has been modified on the PC in the meantime or that it is dealing with a file of the same name but different contents. In this case, the cursor will be positioned at the beginning of the file upon opening it and the bookmarks associated with this file will be discarded.



5.2.20 Quick transfer of files or blocks of text to a connected device (SPC + 1 5 7 = Chord E)

If you want to transfer a text from the Actilino to a connected device (PC or mobile), you can do this quickly and directly from the Editor without the use of HTCom. It is important that the cursor on the connected device is placed into an input field, e.g. in an Editor. If you have selected a block of text and press [SPC + 1 5 7] (Chord E), the selected text block is transferred as if you had typed it on a keyboard. If no text is selected, the complete document will be transferred.

5.2.21 Closing a File and Quitting the Editor (SPC+1 5 = Chord e)

Use [SPC+1 5] (Chord e) or {Alt+F4} on an external keyboard to save and then close the current file.

If the file was modified, the Editor will ask: 'Save changes (Y/N)?'

- "n": The file is closed; changes are not saved.
- "y": If the file is already named, it is saved under that name and closed. If it is a new file which does not yet have a name, the Editor tries to suggest an appropriate filename for unnamed files based on the first 20 characters of the first line or will propose 'untitled'. You can either change or accept this name.

Please note:

- 1. The Editor is open until all open files have been closed.
- 2. Before you switch off your Actilino, all files that are open in the Editor must be saved and closed. Shutting down the Actilino while files with unsaved changes are open is not possible. Only if all changes are saved or discarded, you can switch off the Actilino.

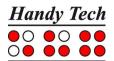
5.2.22 Activating PC Mode from the Editor (SPC+1 2 3 4 = Chord p)

With [SPC+1 2 3 4] (Chord p), you can activate PC Mode directly from the Editor. Let's assume your Actilino is connected to your computer and you are looking for an address in the Actilino's internal Editor. At this moment, the PC notifies you via acoustic signal that an e-mail has arrived. You are expecting an important e-mail and would like to quickly look at your mailbox. You can do this immediately by switching over to PC Mode with [SPC+1 2 3 4] (Chord p) and then operating your PC. The Editor, in the meantime, will be suspended, so that the Braille display is available to the screen reader. You can open your mailbox, read the e-mail and also take care of other tasks.

You can return to the Editor with [SPC+1 3 4] (Chord m). To do this, hold down [SPC+1 3 4] (Chord m) for a little while (approximately one half second).

!!!WARNING!!!

Before the Actilino can be turned off, the Editor must be closed with all edited files saved. You should therefore always return to the Actilino's internal menu by using [SPC+1 3 4] (Chord m) in order to ascertain the status of the Editor.



5.2.23 Help (SPC+1 2 5 = Chord h)

Whenever you enter [SPC+1 2 5] (Chord h) or {F1} on an external keyboard, the Editor starts looking for the help file in the selected system language and opens it in read-only mode. This file contains the user manual. If there is no help file for the current language, the English help file will be opened as standard. Using either an incremental or buffered search, you can look up solutions to any problems, tips or key assignments. You cannot directly jump to any chapter; however, you can find the chapter you need quickly by moving to the beginning of the file, reviewing the Table of Contents and then executing an incremental or buffered search with the section number as the search string.

Please note:

The help file opens in "Read Only" mode to prevent the accidental overwriting of important information. This means it is not possible to add your own notes to this file.

5.2.24 The Editor's Setup Menu (SPC+1 3 6 = Chord u)

The Editor provides a Setup menu, called up by entering [SPC+1 3 6], which allows you to customize Editor functions to reflect your needs and habits. Some of the settings are global, i.e. the chosen setting applies to all files. Other settings apply only to individual files. The settings parameters for up to 20 files are stored individually when the files are properly saved. If you modify a file whose parameter settings have not yet been stored, the default setup parameters will be applied to this file. Before you save a new file, you should therefore adjust the values in the Setup menu according to your requirements. Each of the individual parameter descriptions below indicates whether that setting is global or valid only for individual files.

The Setup menu contains a list of parameters. You can navigate through the list by moving the cursor up and down with [SPC+1] and [SPC+4]. The desired parameter can be selected by pressing [TRC]. Alternatively, you can also input the name of the parameter you wish to change then confirm with [TRC].

Once you have selected a parameter with one of these two methods, a list of possible settings will appear. By navigating up and down through this list, you can get to the value you wish to set. Set that value by pressing [TRC] and you will then return to the list of parameters. Instead of a list of settings, a field may also appear which is used to input numerical values or text. Again, the input must be confirmed by pressing [TRC]. You can also return to the list of parameters without making any changes by pressing [TLC].

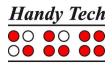
If you want to restore the default value for any parameter, you can do this by typing [SPC+1 4] (Chord c). In the case of parameters which were recently modified, [SPC+1 4] (Chord c) will restore the previous settings.

The following subsections discuss each item on the Setup menu.

5.2.24.1 Window Scrolling (Global)

This value specifies by how many positions the display will be scrolled to the side when the cursor moves beyond the currently displayed text. Valid settings for this parameter are 0 through the number of Braille positions available (16). The default value is 3/4 of the available Braille elements. If you enter a value outside of the valid range, this will result in an error message.

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This parameter can be used to obtain various effects. For example, you can enter 1; this causes the display to scroll with every character you enter that falls beyond the current display. In contrast, if you specify the highest possible value (16), the Actilino will react just like the older versions of Braille system software: the entire line will be rebuilt every time you move beyond it. If you move the cursor beyond the display towards the right, the cursor will appear at the first Braille element. If you move the cursor beyond the display towards the left, it will appear on the last Braille position.

5.2.24.2 Scroll time (Global)

This option is relevant only when using ATC and can be set to a value in the range from 1 to 10. It determines how long the Actilino will wait before automatically scrolling to the next line of text. Lower values are better for skimming, while higher values prevent you from missing characters at the end of the displayed text. The default value is 3.

5.2.24.3 Indicate empty lines (Global)

For the automatic scrolling with ATC it is necessary to mark empty lines. This allows detecting the reading finger even for blank lines. An empty line is indicated by three Braille cells, where all dots are set. By default, empty lines are not marked. If you want to use automatic scrolling, we recommend setting this option to "Yes".

5.2.24.4 Automatic scrolling (Global)

If this option is activated the Braille display will automatically scroll by ATC. ATC detects the position of your reading finger and scrolls on automatically, when you have read the last character displayed. When using automatic scrolling, we recommend also activating the option "**Indicate empty lines**" to be able to scroll on at empty lines.

By pressing [SPC + 1 7] (Chord A) you can toggle both options "**Indicate empty lines**" and "**Automatic scrolling**" together without using the settings dialog.

5.2.24.5 Dialog Timeout (Global)

This value specifies the number of seconds you remain in any Editor dialog if you do not enter anything. If the specified time limit has been exceeded and no input was made, the dialog is closed without any changes being made or functions initiated. The valid settings are between 0 and 999 and the default is 100 seconds.

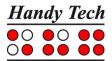
Note: It is not advisable to set the timeout value to less than 10, because then the dialog closes too quickly after being opened for you to have a chance to react to it or enter anything.

The timeout function does not apply to the Setup menu itself. This would be undesirable, since you might not have the opportunity to enter any changes. In the Setup menu, you therefore must always press [TLC] to exit the menu.

5.2.24.6 Warn Timeout (Global)

This menu item determines the delay in seconds for displaying messages and warnings. Remember, you can quit a message at any time by pressing [TLC]. If you press any other key while a message is being displayed, the timeout period is reset, and you have more time to read the message.

Possible values for this parameter are 0 through 999; the default here is 30.



Note:

It is not recommended to set this parameter to less than 10 because in most cases this would not display the message long enough to read it.

5.2.24.7 Result Position or [c]

This option applies to the calculator function of your Actilino and is used to specify the position of the result, both in the actual calculator and in the calculator function within the Editor. The letter [c] stands for the setting in the calculator and the letter [e] stands for the setting in the Editor.

The possible settings are in each case:

- **Before Expression**: The result is displayed before the expression, for example: 5 = 2+3. This is the default setting for the calculator.
- **After Expression**: The result is displayed after the expression, for example: 2+3 = 5. This is the default setting for the Editor.

5.2.24.8 Keep Expression or [c]

This option applies to the calculator function of your Actilino and is used to specify whether the expression you enter is to be displayed together with the result, both in the actual calculator and in the calculator function within the Editor. The letter [c] stands for the setting in the calculator and the letter [e] stands for the setting in the Editor.

The possible settings are in each case:

- Yes: The complete expression is displayed, for example: 5 = 2+3, taking the setting for the option "**Result Position**" into account. This is the default setting for the calculator.
- No: Only the result is displayed, for example:
 5. The setting for the option "Result Position" has no effect in this case.

5.2.24.9 Find Exact (Global)

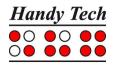
This parameter specifies how precisely a search string must match the search term during searches (does not apply to replacing). There are two possible settings:

- If you set 'Find Exact' to 'Yes', the search term must be entered with exactly the same capitalization to be found in the text. For example, if you enter the search string "Table" capitalized, the same word without the capitalization, "table," will not be found.
- 2. If you set this parameter to **'No'**, words with upper- and lower-case letters will still be found, even if you only enter lower case letters.

Please Note:

If the option **'Find Exact'** is set to **'No'** and your search term contains umlauts or special characters, the Editor will only find the upper- and lower-case equivalent of the character if the standard character set is active. The standard character set is "ANSI Latin1". If you are not using the standard character set, an umlaut or special character will only be found in the exact format in which you entered it (either upper or lower case). As a default, this option is turned off.

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5.2.24.10 Margin Action (Global)

You can choose one of three different types of actions when the right edge of the display is reached within the Editor:

"None": No action.

"Bell": Emit a beep, depending on the settings for signal tones.

"Wrap": Look for the beginning of the word currently being typed and wrap it to the next line. A beeping signal is also emitted. The default setting for Margin Action is **"None"**.

5.2.24.11 Right Margin (Global)

To facilitate text input, you can specify a right margin. Possible values are 0 to 32767 with the default value set to 75. The previous option "**Margin Action**" determines what the Editor will do when the right edge is reached.

5.2.24.12 Word Wrap (Global)

For this parameter, you can choose either "Yes" or "No". "Yes" means that a word that does not fit completely on the end of the Braille display is suppressed, if the cursor is not located in the currently displayed line. If the cursor is not in the current line of text, the word will be displayed in part and then again completely after the display was scrolled by using the reading keys.

If word wrap is turned off (set to "**No**"), as many letters of the word as possible are displayed on the Braille elements. The default setting is "**Yes**".

Note:

This word wrap function applies only to the reading of text; it is not active while entering text.

5.2.24.13 Tab Mode (Global)

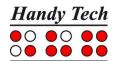
This setting determines which characters will be inserted by the Editor when you input a tab character. Two options are available:

- "Tabs (\t)": Preferably, tab characters will be inserted, but this depends on the currently active setting for 'Tab Stops' (see next section). This option is especially useful if you desire to keep your files as compact as possible.
- "Blanks": For each tab character, the number of spaces specified under 'Tab Width' will be inserted into the text. This option is appropriate if you want to ensure that a file is formatted exactly like it was on the Actilino once it has been transmitted to your word processing program on the PC. The disadvantage here is that you cannot delete the tab character with one keystroke. All of the spaces inserted for the tab must be deleted individually.

Remember, the representation of tab characters on the Braille display is always by a number of spaces, regardless of the option specified in Tab Mode.

5.2.24.14 Tab Stops (Global)

Valid arguments for this value are from 0 up to the maximum number of positions on your Actilino (16). If you specify 0, either a tab character or the number of spaces set under '**Tab Width'** (see next section) will be inserted into the text each time you input the tab character, independent of your position within the text. Any value greater than 0 results in the current line being filled up with either tab characters or spaces in such a way that a tab stop is set at every nth position (e.g. every 5th position).



The following example will clarify this parameter:

If you have set '**Tab Stops'** to 5 and the cursor is located at column 1, then the cursor will move to column 6 as soon as you enter a tab character. If you enter a tab again, you will be located in column 11 and so on. If you type in a word here consisting of 7 letters and then enter tab from that position, which would be column 18, then the cursor will move to column 22.

5.2.24.15 Tab Width (Global)

This parameter determines the number of spaces used for displaying a tab on the Braille display. It also specifies the number of spaces used to represent a tab character that is entered on the Actilino if the option **'Tab Mode'** is set to "**Blanks**". Valid entries for this setting are 1 through the maximum number of positions available on the Actilino (16). The value in this menu item affects all tabs in a given file. In other words, you cannot set a tab width of 4 characters in one place and a tab width of 32 characters at another place within the same file. Whenever you open a file for the first time or create a new file, the default setting of 4 spaces applies.

Note:

When a file is transferred to the PC, tab characters will not be replaced by the number of spaces specified for that file, but instead will be transmitted as tab characters. If you open the file later on the PC in a word processing program, the tab characters may be handled in several different ways. Many programs convert tab characters into a number of spaces that is a multiple of 2 (e.g. 4 or 8). Others display tab characters without converting them at all or provide several options for conversion. Please consult the documentation for your word processing program for details.

5.2.24.16 Line End (Individual File)

This menu item provides three options for representing the end of a line when you save a file to the flash disk. The following displays are available:

- Carriage return with line feed, CRLF (\\r\\n, ^M^J) used by DOS and Windows.
- Carriage return only, CR (\\r, ^M) used by Macintosh OS.
- Line feed only, LF (\\n, \forall J) used by Unix-based operating systems.

In the case of files transmitted to the Actilino, this setting is obtained from the file itself and cannot be changed. However, you can specify this parameter for all files created on the Actilino.

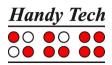
5.2.24.17 Insert Cursor (Global)

Here you can specify the form the cursor should take in insert mode. This means you also specify the cursor shape in overwrite mode at the same time, since the overwrite cursor always takes the shape not chosen for the insert cursor. The two cursor formats are: an underline "**Underline**" or a block "**Block**". Both shapes are blinking cursors and that feature cannot be changed.

5.2.24.18 Edit Mode (Individual File)

Dependent on which mode (edit or view) you opened the current file, you find one of this three settings:

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- "Insert": All text input is inserted at the cursor position, the existing characters in the file are not deleted.
- "Overwrite": The characters existing at the cursor position are overwritten by the input characters.
- "Read Only": The file cannot be modified. Any commands that would modify the file generate beeps, as long as acoustic output is activated in the (O)ptions menu.

If the file was opened for editing, you can choose between the settings "Insert" and "Overwrite". You can also change the edit mode by pressing [SPC+2 4] (Chord i) without opening the menu.

Please note that you cannot switch back from read-only mode once it has been selected while the file is still open you have selected it for. If you do wish to turn off read-only mode, you must quit the file and then open it again — either from the Editor or from the file list. You can then change the **Edit Mode** in the Setup menu.

5.2.24.19 Scroll Speed (Global)

This setting allows you to pre-set the speed for automatic reading mode. You may choose any value from 1 to 10, where 10 is the slowest. The default value is 5.

5.2.24.20 Saved Position (Individual File)

Since the cursor does not move during automatic reading, two options are available here for how the cursor is saved when the file is closed:

- "Cursor": This is the default. The current position of the cursor is saved and when the file is opened again, the cursor will be at that position.
- "Display": The cursor will be on the line that was last displayed when the file was closed.

5.2.24.21 Display Mode (Individual File)

This item allows you to choose one of several modes of display:

- "Text Only": Special characters are represented by a period, control characters by ^ with the appropriate letter (e.g. ^d for return).
- "Special": Special characters are displayed in hexadecimal representation (e.g. 0xfd for 253).
- "Normal": All characters are displayed according to the currently active character set.

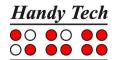
The default setting for this parameter is "Normal".

5.2.24.22 Step Size (Global)

This parameter specifies by how many characters the display moves when the reading keys are used. Valid arguments are from 1 to the maximum number of positions available on the Actilino (16). The default setting is the highest value possible. It should be remembered that the setting specified in the "**Word Wrap**" parameter (see chapter 5.2.24.12) also influences the movement of the display.

5.2.24.23 Match Column (Global)

This setting contains the value for the position on the Braille display where a found search term will be displayed. Here the valid settings are between 0 and the maximum number of



positions available on the Actilino (16), but both 0 and 1 refer to the first Braille module. The default setting here is always the center of the display (8).

This function allows you to view the search term within its context. Depending on whether the text just before or after the found term has priority, you can position the column for the match further to the right or left on the display. Positioning the matching search term at the match column occurs whenever the matching term in the text appears to the right of the match column.

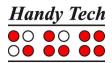
If we assume that you have set the match column to position 10, that you are searching for the word "Help" and that the word "Help" has been found at column 12, then the Editor adjusts the display on the Actilino in such a way that the word "Help" is shown beginning at the 10th module on the Braille display. Assume further that you search for the word "Help" again and that it is located at column 8 in the text. This time the Braille display will not be adjusted, because the word appears to the left of the match column.

5.2.25 Important Instructions Regarding the Editor

The Editor's powerful features provide a comfortable, high-performance tool for you, but at the same time, it is important to handle it properly. This chapter contains many useful tips for using the Editor.

1. Handling of files:

- Always save your files to the PC at regular, brief intervals. This not only prevents
 the loss of important data, but it will also enable you, if necessary, to delete one
 of your unedited files, if you need to free up some memory.
- While working with large files, such as manuscripts or lecture notes, the available memory may not be sufficient for writing the edited file. If you are not making changes within the entire document, but only adding text to the end of the large file (e.g. a new chapter or your notes for the most recent lecture), you can circumvent this problem by creating a new file and writing your continuation there, while keeping the larger file open in read-only mode. In this way, all of the information is available to you and it is more likely that you will be able to save the additional texts. At a later time, you can open both files in edit mode and attach the contents of the new file to the larger file by using the appropriate block operations. If you find that you cannot save the file after having attached the additional notes, you can transfer both files to the PC, concatenate them there and then retransmit that file to the Actilino.
- The Editor determines while you are working whether there is enough memory left for saving the changes you are entering. Should this not be the case, the Editor will notify you. If you have opened and edited several files, you can increase the available memory by first attempting to save and close smaller files. If you succeed, you will then be able to also save and close larger files. Another possibility is to suspend the Editor in order to delete any files not immediately needed. However, the prerequisite for this procedure is that you regularly save your data to the PC. Remember that a file cannot be deleted if it is open in the Editor. Close the file before suspending the Editor if it is open.
- One of the files needed by the Editor is the "\$clipboard\$" file. This file, if it exists, is deleted when the Actilino's power is turned on to provide as much memory as possible for your data, but you can also delete it while working within the Editor.



You can do this by suspending the Editor and deleting this file from the file menu. Please note, however, that you will not receive any special warning other than the standard dialog when deleting this file. You should therefore delete the clipboard only if you are sure that you will no longer require its contents. Again, only files that are not currently open can be deleted.

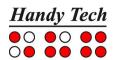
- When you attempt to open an editable file with [SPC+1 3 5] (Chord o) or via the menu item '(E)dit' from the file list, the Editor will check whether enough memory is available for editing the file. Should this not be the case, the file will be opened in read-only mode and a message will be issued. As long as there is enough memory left for managing the appropriate pages, a file can always be opened in read-only mode, because no swap file needs to be created to keep track of changes.
- 2. Block operations may cause a slowdown of the Editor when working with large amounts of data. This means that you may have to wait a little until a block has been either, copied, cut or pasted, if you are working with very large amounts of text. Navigation within the Editor may slow down in the case of very long lines.

5.3 Controlling the PC from the Actilino's Keyboard [SPC+1 2 7] (Chord B)

It is possible to use the Actilino's keyboard for inputs to the PC by utilizing the screen reader. Therefore, it is necessary to install the latest Handy Tech Braille display driver for your screen reader which you can find on the StartStick.

You can also activate and deactivate PC control separately. This is necessary because the Actilino's function keys must be available both as an input device for the PC and for initiating screen reader functions. The following functionalities are available to you:

- Turning PC control on and off
- Input of characters
- Use of the control key (Ctrl), including for keyboard shortcuts: One example is the copy function which is Ctrl+C on a PC keyboard
- Use of the Alt key, including for keyboard shortcuts: One example is activating the menu bar under Windows programs
- Triggering the "Windows" and "Context" keys
- Triggering the Enter key
- Triggering the Escape key
- Triggering the Backspace key
- Triggering the Delete key
- Moving the cursor
- Triggering the Pos1 and End keys
- Triggering the Page Up and Page Down keys
- Triggering the Shift key: One example is entering Ctrl+Shift+f
- Caps lock, for example in order to select blocks
- Initiating the function keys, including in combination with Ctrl, Shift and Alt. This
 means it is possible, for example, to close certain windows or entire applications via
 function keys.



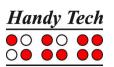
5.3.1 Table of Key Commands for Controlling the PC

The key combinations for controlling the PC are listed below in the form of a table. We have included as many combinations as possible; however, if a combination is not shown it does not mean that it is not possible. All key combinations with [SPC] can either be pressed with [SPCL] or [SPCR].

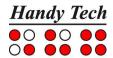
Key combinations are represented by the plus sign (+), e.g. Ctrl+Alt+a. Consecutive keystrokes are separated by a comma, e.g. 1, 2 or SPC+2 3 7, z. The cursor routing keys are abbreviated as CR (e.g. CR12 = cursor routing key above Braille module 12).

PC Key(s)	Chord Commands	Emulated on the Actilino by
Activate/deactivate PC	Chord B	SPC + 1 2 7
control	Chold B	51 6 + 1 2 7
Backspace	Chord b	SPC + 1 2 or 7
Delete	Chorab	SPC + 4 5
Paste	Chord i	SPC + 2 4
Alt	Chorai	TRC + SPC
Alt + character		TRC + character
		SPC + 7 8
Alt for next character		
Activate/deactivate Alt		SPCL + SPCR + 78
Enter		8 or TRC
Ctrl + character		TLC + character
Ctrl for next character		SPC + 3 6
Activate/deactivate Ctrl	01 1 (SPCL + SPCR + 3 6
Tab	Chord t	SPC + 2 3 4 5
Shift + Tab	Chord T	SPC + 2 3 4 5 7
Ctrl + Tab		TLC + SPC + 2 3 4 5
Ctrl + Shift + Tab		TLC + SPC + 2 3 4 5 7
Escape	Chord e	SPC + 1 5 or TLC
Shift + Escape	Chord E	SPC + 1 5 7
Ctrl + Shift + Escape		TLC + SPC + 1 5 7
Shift + character	Chord s	SPC + 2 3 4, character
Caps Lock on/off	Chord S	SPC + 2 3 4 7
Cursor keys		Up: SPC + 1, Left: SPC + 7,
		Down: SPC + 4, Right: SPC + 8
Mark	Chord S	SPC + 2 3 4 7 "holds down" the shift key
		until SPC + 2 3 4 7 is input again. It is
		therefore possible to work with all cursor
		movements, such as Home, End, etc. If you
		wanted to mark two characters to the right
		of the cursor, you would enter SPC + 2 3 4
		7, SPC+8 (cursor right) twice and SPC + 2
		3 4 7 again
Previous word (Ctrl + Cursor left)		SPC + 3
Next word (Ctrl + Cursor		SPC + 6
right)		
Page Up		SPC + 2

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PC Key(s)	Chord Commands	Emulated on the Actilino by
Page Down		SPC + 5
Ctrl + Page Up		TLC + SPC + 2
Ctrl + Page Down		TLC + SPC + 5
Pos1	Chord k	SPC + 1 3
End		SPC + 4 6
Ctrl + Pos1	Chord I	SPC + 1 2 3
Ctrl + End		SPC + 4 5 6
Function Keys F1 to F12		SPC + CR1 to CR12
Left Windows Key	Chord w	SPC + 2 4 5 6
Context Key	Chord W	SPC + 2 4 5 6 7
Windows Key + character		SPC + 2 4 5 6 8 followed by character
Activate/Deactivate Windows Key		SPCL + SPCR + 2 4 5 6 8
PAUSE key	Chord p	SPC + 1 2 3 4
Windows key + PAUSE key		SPC + 2 4 5 6 8 followed by SPC + 1 2 3 4
Space		SPCL or SPCR
Screen Reader Key + character		SPC + 2 3 4 8 followed by character
Activate/Deactivate Screen Reader Key		SPCL + SPCR + 2 3 4 8



6 External Keyboard

An external keyboard may be connected directly to the Actilino. Keyboards of any make or model may be used, provided they comply with the following requirements:

- USB connection
- low current consumption (recommended 30 mA with LEDs turned off)

The external keyboard transmits your keystrokes to the Actilino in the same way as the internal Braille keyboard. You can therefore operate both an external and the internal keyboard in parallel. Please refer to chapter "Installation" for the procedure for connecting an external keyboard.

Please remember that all the information in this section applies only to an external keyboard, not to the built-in Braille keyboard.

6.1 General

Any keyboard transmits encoded data indicating which key has been pressed or released. These data do not in themselves contain any information about what this key stroke means, i.e. which character it should generate. That information is assigned by the so-called keyboard driver and depends on the desired language. This means, for example, that if a U.S. English keyboard layout has been selected, the character ":" is realized by pressing "Shift ö" on a German keyboard.

Depending on the language (which means on the keyboard layout currently in force), the Actilino's keyboard driver needs further information on how it is to implement the encoded key stroke information. Therefore, a table for assigning keystrokes to characters must be present in the Actilino, the keyboard layout table.

The Actilino already contains a fixed, programmed keyboard layout table for a German keyboard as well as downloadable keyboard layout tables for the languages that can be chosen in the menu. The keyboard layout tables for the different languages are named after the following scheme: "Language_KBDLYOUT.hsf". The internal keyboard layout table is always activated when no downloadable keyboard layout is found. This is the case, for example, when no files at all are stored on the media after the Actilino has been reformatted. When the Actilino is turned on, it checks whether the downloadable table is available for the chosen language. If not, it generates the warning message:

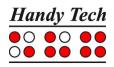
'WRN: KBD layout not found. Using standard layout. '

and switches automatically to the default internal table. The warning is even generated when no external keyboard is connected to the Actilino because in this case it is still possible to attach the keyboard later. You can also change or create the files with the keyboard layout tables by yourself and transfer them to the Actilino afterwards.

6.2 Keyboard Keys

In this section, you will find comments on some characteristics of using an external keyboard. They are generally caused by the fact that there are keys on a keyboard that make no sense when used in conjunction with the Actilino.

External Keyboard



6.2.1 Alphanumerical Character Inputs

There are no special characteristics regarding the input of alphanumerical characters on the central keyboard area.

6.2.2 Numerical Pad

The keys on the numerical pad function just like the alphanumerical keys. The NUM key has no function. All keys except Enter can be assigned your desired characters. In the factory-provided keyboard layout tables, these keys are assigned numerical meanings.

Alternatively, any desired characters can be entered by means of the Alt+x function (where x can be any number between 0 and 256). This Alt function is used for generating characters that are not directly accessible on the keyboard layout.

6.2.3 Function Keys

The function keys have no function in conjunction with the Actilino.

6.2.4 Navigation Keys

The term navigation keys refer to the 6-key block as well as the cursor keys located between the main keyboard section and the numerical pad. These keys retain their functions without any restrictions. You should note, however, that the key "POS1" implements the chord command [SPC+1 3] and the key "End" the chord command [SPC+4 6]. If pressed at the same time as the control key (Ctrl), "POS1" executes the command [SPC+1 2 3], while the "End" key executes [SPC+4 5 6].

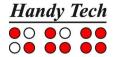
6.2.5 Special Keys

There are several special keys on many keyboards, which are described in detail below. It should be noted that on some keyboards, the right shift key does not work in conjunction with the right Alt key. The left Shift key can be used for these combinations instead.

Shift	Activates the secondary function until the key is released.
ShiftLock / CapsLock	After pressing this key, the secondary functions remain active until
	the Shift or ShiftLock key is pressed again. All keys are switched to
	their secondary function, not only the letter keys.
ALT / ALT left	No function. If the key is held down continuously, ASCII codes may
	be entered via the numerical pad.
ALT Gr / ALT right	Activates the tertiary function until the key is released.
Ctrl	Only remains active until the key is released.
WINDOWS and	These keys are not supported and cannot be assigned any
context menu keys,	functions.
print, scroll, pause	

6.2.6 Status Indicators

LED status indicators are not used. This circumstance should be pointed out to sighted assistants. If the keyboard reacts in an unfamiliar manner, press the Shift and Control keys to ensure that no undesirable state has been activated.



7 The Actilino as Braille Display

The Actilino is supported by various screen output programs that include drivers for the device, e. g.:

- JAWS
- Supernova (Dolphin Systems)
- NVDA
- VoiceOver
- Blinux (SuSE LINUX)

If these programs are used, all of the Actilino's functionality is assured.

When working with a Windows screen reader or with Voiceover on a Mac, you may freely adjust the way the control stick works by assigning screen reader commands to the various directions. For iOS and Android, we have predefined the following assignments for your convenience:

- Right: Goes to the next element
- Left: Goes to the previous element
- Down: Goes to the next element according to the current rotor
- Up: Goes to the previous element according to the current rotor
- Action: Activate the selected element

New versions of the respective operating systems may extend these functions.

7.1 Screen readers using Windows: Example JAWS

The functionality of JAWS for Windows is so extensive that only the basic functions for operating the Braille display can be described in brief in this section.

The status modules of a Braille display contain important data regarding screen positioning. Since your Actilino does not include status modules, you can use [SPCL+SPCR] to toggle between displaying the contents of the screen and the status module display. The first three status elements indicate the cursor's pixel position within the line. The fourth status element indicates which mode is currently active, as follows:

- p for PC cursor
- j for JAWS cursor
- s for structured mode

Dots 7 and 8 of the status elements show the Braille display's position in a window line. They have the following meanings:

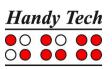
1+2+3+4: The entire window line is shown on the Braille display

1+2: Left half of the window line3+4: Right half of the window line

2+3: There is more text on the left and right in the window line

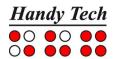
7.1.1 Overview

This table lists all functions associated with the Braille and control keys on the Actilino. We have not included an exhaustive description of each of the functions, because these are contained in the JAWS for Windows manual.



Control Key/Braille Dot	Function
[7]	Activate PC cursor tracking.
[3]	Display the first line in the window (title).
[2]	Move the Braille display to the left.
[1]	Move the Braille display section one line up without
	changing the horizontal position.
[SPCL]	If there is any text to the left of the Braille display section,
	it moves to the left, if not, it moves one line up and moves
	the cursor.
[SPCR]	If there is any text to the right of the Braille display section,
-	it moves to the right, if not, it moves one line down and
	moves the cursor.
[4]	Move the Braille display section one line down without
-	changing the horizontal position.
[5]	Move the Braille display to the right.
[6]	Display the last line in the window.
[8]	Drag the JAWS cursor to the PC cursor and activate the
	JAWS cursor.
[TU]	If there is any text to the left of the Braille display section,
	it moves to the left, if not, it moves one line up.
[TD]	If there is any text to the right of the Braille display section,
	it moves to the right, if not, it moves one line down.
[SPCL + SPCR]	Toggle status modules on and off.
[7 8]	Switch between structured mode, section output and
	speech output.
[3 8]	Change cursor representation (dots 7 and 8, all 8 dots,
	blinking and non-blinking).
[2 8]	Toggle between 6/8 dot Braille.
[1 8]	Handy Tech configuration dialog (starting from Handy
	Tech JAWS Driver version 3.x)
[4 8]	Toggle between focused text on Braille display/same text
	as on screen.
[5 8]	Activate the JAWS cursor.
[2 3]	Beginning of line
[5 6]	End of line
[1 2 3]	Top of file
[4 5 6]	End of file
[3 6 7]	Speech interruption on/off
[3 6 7 8]	Output task bar
[TLC]	Tab
[TRC]	Shift + Tab
[TLC + TRC]	Enter
[SPC + 1 2 7]	Toggle Braille input on/off
[SPC + 1 7]	Toggle ATC on/off
[SPC + 1 2 3]	Toggle ATC reading protocol on/off
[SPCL + 1 2 3 7]	If there is any text to the left of the Braille display section,
_	it moves to the left, if not, it moves one line up.
L	





Control Key/Braille Dot	Function
[SPCR + 4 5 6 8]	If there is any text to the right of the Braille display section,
	it moves to the right, if not, it moves one line down.
[SPCL + SPCR + 1 2 3 7]	Move the Braille display section one line up.
[SPCL + SPCR + 4 5 6 8]	Move the Braille display section one line down.

By entering letters in Braille, you can execute the so-called mnemonic commands that are listed below:

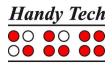
j	[2 4 5]	Activate the JAWS settings menu
%	[1 2 3 4 5 6]	Activate the screen reader settings menu (JAWS)
d	[1 4 5]	Desktop, minimizes all applications
h	[1 2 5]	Activate JAWS Help (paste + F1)
\$	[4 6]	Tab
k	[1 3]	Shift Tab
g	[1 2 4 5]	Grade 2 on/off
m	[1 3 4]	Alt for activating the menu bar
S	[2 3 4]	Start menu
+	[2 3 5]	Toggle 6/8 dot Braille
=	[2 3 5 6]	System Tray
Z	[1 3 5 6]	Announce time
	[3 4]	Status cells on/off
С	[1 4]	Ctrl+Tab
С	[1 4 7]	Shift+Ctrl+Tab
е	[1 5]	ESC
?	[2 6]	Enter
b	[1 2]	Braille cursor tracking on/off
f	[1 2 4]	Active cursor tracking on/off
٧	[1 2 3 6]	Set level of Braille contractions

The cursor routing keys (CR) are used to directly place the cursor at that text position. In addition, the following functions can be initiated by activating cursor routing keys in combination with certain control keys:

[CR + 1] or [CR + 4]	Mark a text block (beginning and end of block)
[CR + 6]	Describe object at the CR position
[CR + 8]	Right mouse click at the CR position
[CR + TU] or [CR + TD]	Describe the font

If the four status modules are in use on the Braille display, the CR keys above the status elements (S1 through S4) have the following functions:

[S1]	Toggle attribute / text mode
[S2]	Change attribute representation, underlined with dots
	7+8
[S3]	Toggle unconditional / conditional cursor tracking
[S4]	Toggle active cursor tracking on/off



7.2 Screen reader using Windows: Example SuperNova

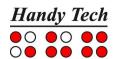
The functionality of SuperNova for Windows is so extensive that only the basic functions for operating the Braille display can be described in brief in this section.

Besides navigation, the most important keys for operating SuperNova with the Actilino are [7] and [3]. [7] switches into Live-Focus and [3] activates the virtual focus. The virtual focus can be used to explore the contents of the screen, while also providing an opportunity to activate the Windows elements displayed on the Actilino. In contrast, Live-Focus tracks whichever Windows element is the most relevant at the moment. For example, when entering text, if a cursor routing key is pressed at one of the Braille modules, this results in a mouse click at that text position, which means the cursor is now at this location.

7.2.1 Overview

This table lists all functions associated with the keys on the Actilino. We have not included an exhaustive description of each of the functions because they are already contained in the manuals for SuperNova.

Control Key/Braille Dot	Function
[7]	Use Live-Focus
[3]	Тор
[2]	Left by one width
[1]	One line up
[SPCL] or [TU]	Back
[SPCR] or [TD]	Forward
[4]	One line down
[5]	Right by one width
[6]	Braille down
[8]	Go to Live-Focus
[SPCL + SPCR]	Toggle status modules on/off
[7 8]	Physical / logical mode
[3 8]	Braille cursor style
[2 8]	Eight dot / six dot Braille
[1 8]	Handy Tech configuration dialog
[4 8]	Expand gap on/off
[5 8]	Use virtual focus
[2 3]	Beginning of line
[5 6]	End of line
[1 2 3]	Top of file
[4 5 6]	End of file
[5 6 8]	Run through attributes
[TLC]	Tab
[TRC]	Shift + Tab
[TLC + TRC]	Enter
[SPC + 1 2 7]	Toggle Braille input on/off
[SPCL + 1 2 3 7]	Back
[SPCR + 4 5 6 8]	Forward
[SPCL + SPCR + 1 2 3 7]	One line up



Control Key/Braille Dot	Function
[SPCL + SPCR + 4 5 6 8]	One line down
[SPC + 1 7]	Toggle ATC on/off
[SPC + 1 2 3]	Toggle ATC reading protocol on/off

By entering letters in Braille, you can execute the so-called mnemonic commands that are listed below:

%	[1 2 3 4 5 6]	Activate control panel
h	[1 2 5]	Help
\$	[4 6]	Tab
k	[1 3]	Shift + Tab
g	[1 2 4 5]	Literary Braille on/off
m	[1 3 4]	Alt for activating the menu bar
S	[2 3 4]	Start menu
+	[2 3 5]	Eight dot / six dot Braille
=	[2 3 5 6]	System Tray
Z	[1 3 5 6]	Announce date and time
С	[1 4]	Ctrl + Tab
С	[1 4 7]	Shift + Ctrl + Tab
е	[1 5]	ESC
?	[2 6]	Enter
f	[1 2 4]	Tracking on/off
٧	[1 2 3 6]	Set level of Braille contractions

The cursor routing keys (CR) are used to directly place the cursor at that text position. In addition, the following functions can be initiated by activating cursor routing keys in combination with certain control keys. If the four status modules are in use on the Braille display, the CR keys above the status elements (S1 through S4) have the following functions:

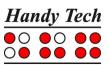
[S1]	Run through attributes
[S2]	Set level of Braille contractions
[S3]	Tracking on/off
[S4]	Physical / logical mode

7.3 VoiceOver: Screen reader for Apple iOS Devices

Actilino is directly supported by the Screen reader VoiceOver included in iPhone, iPod, iPad or Mac. How to connect Actilino to an iPhone is described in chapter 2.7.2 Bluetooth Apple iOS Device Tie-In.

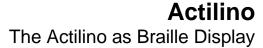
After starting VoiceOver, the first icon on the home screen is highlighted and the name of the icon is displayed on the Braille display. Use [SPC+4] to jump to the next icon, with [SPC+1] you jump back. You can activate an icon and open an application by pressing one CR-Key above the name. For example, if you open "Notes" you can start entering text using the Braille keyboard at the current cursor position. Press [SPC + 125] (Chord h) to return to the Home screen from anywhere.

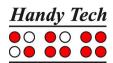
The Actilino as Braille Display



In the following table, you find the key commands for controlling your iOS device with the Actilino using VoiceOver:

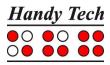
Control Key/Braille Dot	Function
[SPC + 1]	Move to previous item
[SPC + 4]	Move to next item
[SPC + 3]	Move to previous item using rotor setting
[SPC + 6]	Move to next item using rotor setting
[SPC + 2 3]	Select previous rotor setting
[SPC + 5 6]	Select next rotor setting
[SPC + 3 6]	Activates the selected object
[SPC + 1 2 5]	Activates the Home button
[SPC + 1 3 5]	Scroll right one page
[SPC + 2 4 6]	Scroll left one page
[SPC + 1 4 5 6]	Page down
[SPC + 1 2]	Activates the Back button if present
[SPC + 1 2 3]	Move to the first element
[SPC + 4 5 6]	Move to the last element
[SPC + 2 4 5 6]	Read page starting at the top
[SPC + 1 2 3 5]	Read page starting at selected item
[SPC + 2 3 4]	Goes to the status bar
[SPC + 3 4]	Speak page number or rows being displayed
[SPC + 4 7] iPad only	Move to next container
[SPC + 1 7] iPad only	Move to previous container
[SPC + 4 or 5]	Moves through the list
[SPC + 2]	Pan Braille to the left
[SPC + 5]	Pan Braille to the right
[SPC + 1 2 3 4]	Pause or continue speech
[SPC + 1 3 4]	Toggle speech on and off
[SPC + 1 2 3 4 5 6]	Toggle Screen Curtain on and off
[SPC + 2 3 6]	Toggle between 6-dot and 8-dot Braille
[SPC + 1 2 4 5]	Switch between contracted and uncontracted braille
[SPC + 3 4 5]	Activates the Volume Up button
[SPC + 1 2 6]	Activates the Volume Down button
[SPC + 1 2 3 4 6]	Set label
[SPC + 1 3]	Keyboard help
[SPC + 2 3 4 5]	Activates the Tab key
[SPC + 1 2 5 6]	Activates Shift Tab
[SPC + 1 5]	Activates the Return key
[SPC + 8]	Activates the Return key
[SPC + 1 4 5]	Activates the Delete key
[SPC + 7]	Activates the Delete key
[SPC + 2 5 6]	Select text
[SPC + 2 3 5]	Deselect text
[SPC + 1 4]	Сору
[SPC + 1 3 4 6]	Cut
[SPC + 1 2 3 6]	Paste
[SPC + 1 3 5 6]	Undo typing





Control Key/Braille Dot	Function
[SPC + 1 4 6]	Activates the Eject key
[SPC + 3 4 5 6]	Scroll up one page
[SPC + 1 4 5 6]	Scroll down one page

You can find the complete list of Braille commands for VoiceOver at https://support.apple.com/en-en/HT202132.



8 Operation Settings for Handy Tech Braille Displays

The universal Handy Tech Braille display driver features several settings for operating your Actilino with your PC and screen reader. In order to open the Settings window, activate the [1 8] keys simultaneously. The Settings window can also be started up from the Start menu, under "Programs – Handy Tech – Configure Braille display driver". The Braille display driver does not need to be running for this.

There are the following six tabs in the Settings window:

- Connection
- ATC
- Status Cells
- Key Actions
- Miscellaneous
- Info

Your changes of the settings in the different tab sheets will be saved by pressing the OK or Apply Button. If you choose the OK Button, the dialog will be closed.

The following sections provide more details about the settings that are available under these six tabs.

8.1 Connection

The checkbox "Activate Driver" is checked to enable your Actilino to be used by the screen reader. If you uncheck this box, the driver will be deactivated, and you will not be able to operate any Handy Tech Braille display.

The field "Device Detection" provides two options: "Automatic" means that your screen reader will detect the Braille display regardless of the interface through which it is connected to your PC. The second option is to specify a fixed interface at which the screen reader should look for the Braille display. In the corresponding combo box, you can choose one of the existing COM interfaces or the USB interface.

The field "Show Pop-Up Braille Display Information" allows you to specify whether you want to be informed which Braille device is connected to which of your PC's interfaces at the start-up of the screen reader. If this setting is activated, there will be a small dialog during start-up containing the Braille display driver's version number, any detected Braille displays and the interface designation.

You have the following three options:

- When changing device or interface: The dialog appears only if you have connected a different Handy Tech Braille display to the PC or if you have connected the same Braille display to a different interface on your PC.
- Never: The dialog will not be displayed during start-up.
- Always at start: Every time your screen reader starts up, the dialog will be displayed.

If the checkbox "Connect Braille display even when switched on after start up" is checked, the Braille display may be connected to the computer while the screen reader is already running and the Braille display will be recognized. The default setting for this checkbox is unchecked.

Operation Settings for Handy Tech Braille Displays

Checking the checkbox "Reconnect Braille display automatically when disconnect" instructs the screen reader to search for the Braille display in brief intervals if there has been a disconnection. For example, if you turned off the Braille display in order to remove the keyboard or to plug in the power cable, the screen reader will continuously search for a Braille display until you turn the power back on. By checking the checkbox "Notify when searching for connection" you can cause the screen reader to inform you of this process. If you do, you will receive the message e.g. "Searching Actilino" in short intervals.

8.2 ATC

The Actilino's integrated ATC technology detects your reading position on the Braille display which allows for innovative features in the operation and control of the PC. This tab is shown only if your screen reader supports the ATC functions through the Handy Tech Braille display driver.

ATC functionality is so extensive that we have dedicated a separate section to the ATC features. Please review the settings available under this tab in the next Chapter 9, Active Tactile Control (ATC).

8.3 Status Cells

The so-called status modules on your Braille display are used to indicate where your current position is on the screen, for example, within a menu or within a text field. Exactly what information is shown on the status modules depends on the screen reader. Under the "Status Cells" tab you can specify some of the options for these status modules yourself.

The field "Device" allows you to specify which Handy Tech Braille system or device you are using. By default, the currently connected device is recognized and becomes the default setting here. This setting also provides you with the option of configuring other Handy Tech Braille displays, even though they are not currently connected to the computer.

In the next field, you may specify the size of the status display section. As a default, four Braille elements are used as status modules. There is one blank position automatically inserted between the status modules and the remaining positions on the Braille line. The blank element has no function.

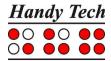
The field "Position of status cells" allows you to determine whether the status modules should be displayed on the left or right side of the Braille line. As a default, they are displayed on the left.

The checkbox called "Display status cells" lets you enable and disable the status display. The status information is not displayed by default. There is a quicker method for enabling and disabling the status display: pressing [SPCL + SPCR] simultaneously. When you use this method, you do not need to open the Settings menu.

8.4 Key Actions

This tab sheet allows you to adjust the behaviour of each key of your Actilino on press in the following three different ways:

Operation Settings for Handy Tech Braille Displays



- Key Lock: Keys defined as locked will be ignored when pressed.
- Fast Keys: Keys defined as fast keys perform their action already when pressed and not as usual when released.
- Repeat Keys: Keys defined as repeat keys will repeat their action continually while be pressed.

8.4.1 Key Lock

Single keys of the Actilino can be locked to prevent the unintentional functions by accidental key presses. This is helpful when starting to learn how to use the Actilino.

With the checkbox "Use Key Lock", you can activate this function. The button "Locked Keys..." will open the dialog "Define locked keys for device". In the list box "Device" the connected Braille display is already preselected. In the list box "Available keys" you can choose the keys to be locked. With the "Add" button you move the selected key into the list box "Locked keys". The "Remove" button moves the key back to the available keys. By default, no keys are locked.

8.4.2 Fast Keys

Fast keys, also known as hot keys, refer to keys that execute the function associated with that key as soon as the key is pressed, as opposed to when the key is released. If one of the keys to be used in a key combination is a fast key, the fast key must therefore be pressed last.

The checkbox "Use Fast Keys" is used for enabling this function. The button "Fast Keys..." will open the dialog "Define Fast Keys for device". In the list box "Device" the connected Braille display is already preselected. In this dialog, you can then select the keys you want to define as fast keys from the list box "Available keys" and move them by pressing the "Add" button into the list box "Fast Keys". By default, no keys are defined as fast keys. There are no fast keys available for Braille input.

8.4.3 Repeat Keys

With the settings under "Repeat Keys" you can specify the repeat interval at which a function initiated by a key is repeated when that key is continually pressed. This feature makes it easier, for example, to navigate through a list, because you do not need to keep pressing the forward or backward key for each item in the list. You can instead keep holding down that key until the cursor is at the desired item.

The checkbox "Use Repeat Keys" is used for enabling this function. The default setting is that key repeats are disabled. The button "Repeat Keys..." will open the dialog "Settings for repeat keys". In the list box "Device" the connected Braille display is already preselected. In this dialog, you can then select the keys you want to define as repeat keys from the list box "Available keys" and move them into the list box "Repeat Keys" by pressing the "Add" button. For the Actilino the keys [1], [4], [TLU], [TLD], [TRU] and [TRD] are pre-set with a default repeat interval of 500 milliseconds, if you activate key repeats. There is no key repeat available for Braille input.

Operation Settings for Handy Tech Braille Displays

8.5 Miscellaneous

Under the tab "Miscellaneous" you can among other options adjust the dot firmness and specify whether your actions should be logged in a protocol file. The protocol function is useful when you need Technical Support. Please check this box only when asked to do so by your customer service representative. You will then also be able to specify where this protocol file should be saved in the field called "Protocol file".

The checkbox "Quick Entry in PC mode by Dot 7 as Back Space and Dot 8 as Enter" controls whether the [7] key is to function as a Backspace key during Braille input and the [8] key as Enter. If you want to disable this option, you can do so by unchecking this box which is checked by default.

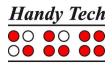
8.6 Info

In the "Info" tab sheet you find important information about your Actilino and the driver software you are using.

In the field "Active display" you find the type of Braille display you are using, the interface it is connected to and its serial number. In addition, you find the date when the next recommended maintenance of your Braille display is due.

In the field "Driver properties" the type of screen reader you are using is listed, as well as the version of your driver.

At "Your dealer" you get the contact details of your Handy Tech dealer with postal address, telephone number and E-mail.



9 Active Tactile Control (ATC)

The Actilino's integrated ATC technology now makes it possible for the first time to detect the Braille dots that you touch. By evaluating the pressure on the individual tactile elements, your reading position on the Braille line can be determined. Using various assistive functions that can be customized, your reading position can be employed to control the screen reader. Depending on your current reading behaviour, certain actions can be initiated. ATC can recognize four different reading behaviours:

- Normal reading: The reading position is moving from left to right.
- Fast reading: Reading speed is faster than a pre-set rate of characters per second.
- Resting: A character is touched for longer than a specified time period.
- Reading backwards: The reading position is moving from right to left.

A certain action can be assigned to each of these four behaviours. There are two customizable modes for the so-called assistant functions. The two modes are "Reading" and "Learning". The tab "ATC" in the Settings menu of the Handy Tech Braille system is used to specify what your Actilino and your screen reader should do when each reading behaviour is detected, depending on whether you have selected either Reading or Learning mode.

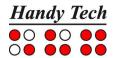
Under the ATC tab, the checkbox "Use ATC" allows you to enable or disable the ATC functionality. There is also a quicker way to do this by pressing [SPCL + 1 7] (Chord A). By default, this function is unchecked.

The sliding "Sensitivity" control is used to set the sensitivity of the ATC sensors to match your personal reading style. You can increase or decrease the sensitivity by activating the "right" or "left" cursor key respectively. Advanced Braille readers with a light touch while reading Braille could experience that the reading position is not detected reliably even with high sensitivity set. In this case, we recommend to lower the dot firmness to "weak" (see chapter 8.5 Miscellaneous) to improve the detection.

The field "Assistant Mode" is used to specify whether you want to take advantage of the assistant functions for reading or learning Braille. If you have selected one of the two functions in the combo box, you can use the "Settings" button to determine how the screen reader should react to your reading behaviour. More details on these settings are provided below in Section 9.1, ATC Assistant for Reading or Learning.

The ATC-monitor enables the text currently being displayed on the Braille line to be shown in a window corresponding to the size of the Braille line, so that a seeing person is able to follow what is being read on the Braille display. The Settings button in this field allows you to specify the colour used for displaying the reading position. A different colour can be specified for each reading behaviour. More details on these settings are provided below in Section 9.4, ATC-Monitor Settings.

If the checkbox "Show monitor after start-up" is checked, the ATC-monitor will automatically start upon the screen reader's start-up. If you want to turn on the ATC-monitor at a later time, you can go into this menu and activate the button "Start monitor now".



If you check the "Generate protocol" checkbox at "Reading protocol", everything you enter or read on the Braille display will be logged in a protocol file as of the moment when you click "OK" or "Apply". It is faster to use the short key combination [SPCL + 1 2 3] (chord I) to activate the logging function. If ATC was off, it will be automatically activated. You are free to choose any name for this protocol file. The default file name is "HtAtc.log". Generating the reading protocol stops only when you deactivate this "Generate protocol" option again or when you quit the screen reader. The protocol file can be scanned and analysed by an evaluation program later.

9.1 ATC Assistant for Reading or Learning

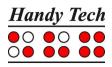
You can specify how the screen reader is supposed to react to your reading behaviour. The following actions are available:

- no action
- speak letter: The letter at the current reading position will be spoken.
- speak word: When touching the first letter of a word, the word will be spoken. It is
 also possible to change the setting so that the word is spoken when read completely.
 Here you can also set a delay time.
- speak Braille display: The text shown on the Braille display will be spoken by the speech output.
- low tone signal
- high tone signal
- speak Braille display and move to the next line: When using this setting with "reading fast", you can skip through text line by line till you reach the section where you want to read without speech. After refreshing the Braille display, the reading of the previous line will be interrupted, and the reading starts with the new position.
- say all and route Braille line: Starts reading the whole text and the Braille display will be synchronized with the reading position of the speech output. When detecting any reading position, the speech will stop, and the Braille display shows the current position.
- say current character's attributes: The attribute at the current reading position will be announced, e.g. "bold Arial 12".
- say character attribute changes: If the attribute at the reading position changes, like from normal to bold, then "bold" will be announced. Also, changes of font type and font size will be announced, e.g. "bold Arial 12".
- route mouse cursor to reading position: The mouse pointer will depending on the reading behaviour – be moved with the reading position. This helps to synchronize the magnification area on the screen with the reading position on the Braille display.

The following four behaviours can be detected as your reading status:

- reading fast
- reading normal
- resting
- reading backwards

Active Tactile Control (ATC)



It is also possible to delay the speech output for a certain amount of time if you do not want the text to be spoken right away. This delay is entered in milliseconds. The possible range for this value is from 0 (no delay) to 5000 milliseconds.

You can also determine the reading speed above which the ATC-function will consider your reading speed as "fast". For this specification, you can enter any value from 0 to 200 characters per second.

The time period after which the ATC-function will identify your reading status as "resting" can also be customized. This value is specified in milliseconds.

You can further control the speech output by checking or unchecking the checkboxes "Speak word only at end of word" and "Also spell word". If "Also spell word" is checked, you can insert a delay before speech output starts spelling by activating the checkbox "Use delay while spelling word". These settings are available only if you have assigned the action "Speak word" to any one of the four possible reading behaviours.

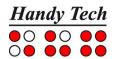
You can control what happens when you reach the end of the Braille line in the field "Action when line has been read". Three checkboxes are available. If you check "Signal tone", a signal tone will be emitted when you have read the last character on the line. If the checkbox "Automatic scrolling after x milliseconds" is checked, you do not need to press [TRD] to advance when you reach the end of the line, instead the next line will automatically be displayed after the specified time has elapsed. If you activate the checkbox "Indicate empty lines", blank lines will be shown on the Braille display by setting all the dots of the first three elements on the display. This is useful if you have automatic scrolling enabled, because now you do not have to manually advance through blank lines by pressing [TRD].

9.2 Tips for Utilizing ATC to Learn Braille

In this section, we provide some useful tips on how to improve your Braille reading skills with the help of ATC. First enable ATC by entering the key combination [SPCL + 1 7] (Chord A). This will activate the Braille system's reading position detection via ATC. You can turn ATC off again by entering the same key combination.

By default, the Assistant Mode is "Reading". Under the tab ATC in the Settings window for Handy Tech Braille displays, change the Assistant Mode to "Learning". Now, after you have read an entire word, the word will be spoken. In this way, ATC can help you to become more secure in reading text. If you come across any Braille character that you do not recognize, you only need to remain at that character and the speech output will name the character. Individual letters and characters are also spoken if you are reading backwards.

ATC can also be extremely useful when you are learning a foreign language. For example, if you want to learn how to pronounce, German words correctly, you can first switch your speech output to German. Then set the Assistant Mode under the tab ATC in the Settings window for Handy Tech Braille displays to "Learning". We recommend setting a speech output delay of approximately 2000 milliseconds, i.e. 2 seconds. Now when you activate ATC, you will have two seconds after having read an entire word to pronounce it yourself, before the speech output speaks the word as well.



9.3 Tips for Utilizing ATC for the Experienced Braille Reader

In this section, you will find tips on how the ATC technology can help you as an experienced Braille display user, to operate your PC and your screen reader program even more efficiently.

Probably the most important Assistant function made possible by ATC is automatic text scrolling when you reach the end of the Braille line. Enable ATC by entering the key combination [SPCL + 1 7] (Chord A). This will activate reading position detection via ATC. In the default settings, the Assistant Mode is "Reading". You can turn ATC off again by entering the same key combination.

Automatic scrolling is the default setting. The active cursor should be tracking the Braille display in order to make automatic scrolling of the text possible. If ATC is active, you will find that the Braille display automatically sets the position on the next segment of text once you have read to the last character represented on the Braille line, just as if you had entered [SPCR] or [TRD].

If you do not change the default settings in Reading mode, you can also cause the entire text on the line to be spoken when ATC recognizes fast reading. Simply move quickly across at least three Braille characters from left to right, which will be detected as fast reading and the speech output will speak the entire text on the display. By default, fast reading is recognized at a reading speed of greater than 15 characters per second. You can customize this value in the Reading Speed profile.

At this point, we would like to draw your attention to a special feature: If there is a blank line, the first three elements on the display will be set with all eight dots. This enables the Braille system to provide automatic scrolling even when there are blank lines.

If you remain at one character for longer than one second or whichever delay you specify in the Reading Speed profile, that character will be spoken.

We recommend the following ATC-settings for you as an experienced Braille reader:

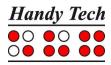
With "reading normal" we recommend using "say character attribute changes". Now you can easily follow attribute changes at the reading position without a hassle switching to attribute information. This is especially useful when checking the layout for example within a word document.

With "reading fast" it makes sense to use the action "say all and route Braille line". This allows you to browse fast through a text till you reached the position you were looking for.

You can assign the reading behaviour "resting" with "say current character's attributes". This allows you to check the current character's attributes anytime.

For "reading backwards" we recommend assigning the action "route mouse cursor to reading position". This allows you with a small gesture to drag the mouse pointer to your reading position. This can be helpful to guide the attention of a sighted person to a specific text position.

Active Tactile Control (ATC)

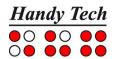


9.4 ATC-Monitor Settings

For the graphic display of the reading modes on the monitor screen, you may assign a different colour to each reading status. The following colours are the default assignments for each mode:

- Finger on line: yellow
- Reading status fast: light blue
- Reading status normal speed: green
- Reading status resting: orange
- · Reading status reading backwards: red

You can customize the colours by opening the standard Windows colour dialog.



10 Battery Management

Your Actilino features a lithium ion battery with a charge of 2.800 mAh. The Actilino will operate for about 30 hours with a new, fully charged battery. This maximum run time decreases as the battery gets older. The battery survives up to 1000 charging and discharging cycles until its capacity weakens noticeably. Whether a lithium ion battery survives for just one or even five years depends on its use and the operating temperature. The operating temperature should not exceed 40°C / 104°F, if possible.

Batteries are subject to aging which can be aggravated under adverse conditions. This is the case when seemingly fully charged batteries operate for only a short time period before they need to be recharged. You can do a few things to reduce this effect:

- If you store the battery for a longer time, its charge should be 40-80%. Lithium ion batteries should be recharged every 3 to 4 months to avoid a deep discharge.
- Slow charging means smooth charging and extends the lifespan of the battery. Because of this, the charge current is limited to 1A.
- Lithium ion batteries should, if possible, not be discharged completely as this can reduce the capacity in case of recurrence. It is not good for the capacity to charge the battery from 0% to 100%. However, complete discharging and charging is required during the calibration of the charging electronic, which leads to a correct capacity status display.
- Lithium ion batteries do not need any conditioning; therefore, it is not necessary to completely charge and then discharge batteries of new devices for several times on first use.

10.1 Battery Charging

The Actilino contains intelligent recharging circuitry for charging the battery. Recharging starts automatically when the power supply delivered with your Actilino is connected to a wall outlet or if the Actilino is connected via USB to a computer that is switched on.

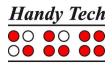
Recharging via a power outlet takes approximately 6 to 8 hours if the battery was empty. When connected to a computer it takes about twice this time. The Actilino features an electronic recognition and interpretation of the end of a load cycle, as well as of the permissible discharge. Therefore, the batteries can neither be overcharged nor excessively discharged. The power supply may therefore remain connected for longer periods of time.

10.2 Battery Capacity Display

The device monitors the battery status in every operating mode. It is therefore possible to display the current battery status at any time. There are two options for displaying battery status: battery voltage and available remaining battery capacity.

Battery voltage is an indirect measure of battery status. The end of discharge has been defined as 3 V. The device turns itself off at a battery voltage of 3 V and can only be turned on again when it has been connected to the power supply or an USB port for recharging. With fully charged batteries, the voltage may reach 4.2 V.

Battery Management



If you require information about the battery, you can display all the important data in the (I)nfo menu, submenu (B)attery stats (see 5.1.11.2).

10.3 Automatic Recognition of Low Voltage

The Actilino includes battery voltage recognition in two steps. When the voltage falls to a low level, a warning signal sounds every minute. This indicates that battery capacity is nearing its end and that the battery should be recharged. You can turn the warning signal off or on in the **(O)ptions** menu (see chapter 5.1.12.11 (T)one signals).

When the lowest limit for the battery voltage has been reached at about 3 V, your Actilino turns itself off. However, even in this state it uses up a small amount of electricity. You should therefore never leave the Actilino in this state for longer than one day. It would be best if you begin to recharge the battery immediately.

If you expect not to use your Actilino for several weeks, either recharge the battery up to 50% first or remove the battery completely from the device. Please be aware that a long battery calibration is necessary after the removal of the battery to ensure a correct capacity status display.

10.4 Replacing the Battery

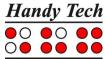
The Actilino contains a rechargeable battery which enables you to work for about 30 hours independent of a power source. The battery is fully charged prior to shipment, so that you can begin working independent of any power source. The power supply included in the package allows you to recharge the empty battery.

We recommend removing the battery only if it is obviously broken and has to be substituted. As soon as you have removed and re-inserted the battery, a long battery calibration has to be done to ensure a correct capacity status display. Therefore, the battery has to be discharged and charged again completely (see chapter 5.1.12.21 Battery calibration: see manual).

The battery must be replaced from time to time because of aging. Please proceed as follows to replace the battery:

- 1. Turn off the Actilino and disconnect all cables.
- 2. If the Actilino is inside of its carrying case, make sure all cables are disconnected and take it out of the case.
- 3. Turn the device over horizontally, so that the control keys are underneath.
- 4. The battery compartment is placed on the bottom of the housing and is secured by a snap catch.
- 5. If you push the snap catch inwards using one finger, you can easily remove the lid of the battery compartment.
- 6. Now you can remove the battery by lifting it out.
- 7. When inserting the new battery, make sure that the electronic contact is placed onto the contact pins inside the battery compartment.
- 8. You lock the cover again by inserting its pins into the appropriate recesses on the housing and then pushing down lightly on the catch. The catch snaps audibly into place.

Battery Management

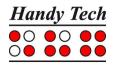


9. You may now return the Actilino to its carrying case.

Important Notes:

- 1. Please use only a lithium ion battery of the same type as the original one, as the Actilino's recharging circuitry has been designed for that type of battery only.
- 2. Please comply with the applicable environmental regulations for the disposal of batteries.

Important Information



11 Important Information

This section contains important safety and warranty information. Please make sure you have read this information before starting up your Actilino.

The Braille device's driving circuitry uses a high voltage of 200 V for the operation of the Braille modules. Danger of electric shock exists when the housing is opened, or the device is handled improperly.

11.1 Start-Up Procedures

After you turn on your Actilino, the device executes tests of several of its components. This section contains a description of each of these tests. If you receive any error messages upon turning on the unit, you will find help in understanding these messages in this section. If you encounter problems, please make sure you review chapter 11.1.2.

11.1.1 Self-check of the File System

The self-check of the file system searches the entire serial flash memory. During this test, every file is tested for completeness, whether the data are stored correctly and whether any two files point to the same sector (concatenation). Also, the two system sectors are checked for their contents.

This test can conclude with three different results which have varying consequences, as follows:

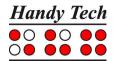
- 1. No error was found during the test: No measures need be taken.
- 2. An error not affecting the entire file system was detected: The system issues a warning message.
- 3. A fatal error was detected: It is necessary to reformat the entire flash disk.

In the case of a warning, the Actilino will output the following message on the display: **'WRN when initializing file system, Backup recommended!'**.

As soon as this message has been confirmed by pressing [TLC], a message appears showing the version number of the file system, the identification number of the error that was detected and a description of the error. The display will read as follows: **'FsVersion x.y, ERR: n: t'** where x.y is the version of the file system, n the number of the detected error and the description of the error.

If a fatal error has occurred, your Actilino will display the following: 'FER in file system: Flash disk must be formatted.' Again, this message is followed by the display of the version number of the file system, the identification number of the error and the error description.

Once this information has been confirmed, the Actilino will begin reformatting the flash disk. After reformatting, the unit will restart automatically, and you must reload the contents of the folder "HTSYS".



Note:

If you receive a fatal error concerning the file system after loading new firmware, the reason may be that the file system's version number has changed.

11.1.2 Saving Files in Case of Fatal Errors

If you receive a fatal error message and you have not made any changes to the firmware, it will unfortunately not be possible to salvage your files. Although this is a very unlikely scenario, we recommend regularly saving your files on a separate system, e.g. a PC.

In addition, it is possible that a fatal error concerning the file system is shown after you have updated the firmware, but relevant data are still stored on the Actilino.

!!! IMPORTANT !!!

If this is the case, do NOT confirm the error message by pressing [TLC]! Once the automatic reformatting has begun, you cannot salvage any of your data!

Instead, turn off the Actilino and restart it in SAVE mode by pressing and holding the on/off button for more than 5 seconds. Load the previous firmware version into the Actilino. Afterwards save all your files on a PC.

11.2 Symbols

The symbols located on the underside of the unit have the following meanings:



Please follow the manual!

Applied Part, Type B

11.3 Safety Information under the Standards for Medical Devices

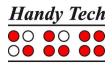
Medical electric devices are subject to special precautions in regard to electromagnetic compatibility and must be installed and taken into operation according to the directions contained in this manual. Please review also the general safety information in Section 11.4 below.

Portable mobile HF communications facilities may affect electrical devices.

11.4 General Safety Information

Misusing the integrated lithium ion battery (decomposing, breaking, overheating) can cause explosions or fires. Lithium ion batteries contain inflammable and/or acid solutions and lithium salts which can, in case of a leakage, lead to irritations of the skin, eyes and mucous

Important Information



membranes. When lithium ion batteries vent gas, toxic steams can escape, which can harm your health.

Avoid contact between your Actilino and any fluids (rain, coffee...). If fluids enter into the housing, you may be exposed to the danger of a hazardous electric shock. In addition, the Braille elements may sustain damage which can only be remedied by costly repairs.

Only representatives of Help Tech GmbH or its authorized dealers have permission to open the Actilino. The device contains no user-serviceable parts. In the event of a defect, please contact your dealer or Help Tech directly. Only an authorized Handy Tech dealer has permission to service the device.

Avoid switching your Actilino on immediately after moving it from a cold room into a warm environment. Under unfavourable conditions, condensation might ruin the device. Wait until the device has warmed to room temperature before turning it on.

Do not expose your Actilino to extreme temperature fluctuations or high humidity during operation. The operating temperature should be between +10°C (= 50°F) and +40°C (= 100°F) and relative humidity may not exceed 80%.

The Actilino must not be operated in moist rooms, for example bathrooms, because the device generates voltages up to 200 V.

All cables (interface cable, power cable) must be installed such that they do not pose any hazards (tripping hazard).

Whenever you want to connect or disconnect the interface cable to or from the Actilino, always avoid any direct touching of the wire contacts in the plug. Touching the contacts could damage your computer interface through static electricity discharge.

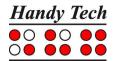
When cleaning the device, always disconnect both the power cable and the interface cable.

If the Actilino was dropped, the housing has become damaged or the Actilino is malfunctioning, turn the unit off immediately. It needs to be serviced by authorized service personnel.

The power supply should be disconnected from the wall if the unit will not be used for an extended period of time.

Always finish what you are working on before disconnecting the power supply cable from the Actilino. Switching over from the power supply to battery power takes some time, during which fluctuations in voltage can occur.

This device must be disposed of at the end of its useful life in compliance with applicable guidelines for electronic devices.



11.5 Handling the Actilino

The Actilino's Braille modules utilize the highly reliable and maintenance-free piezo technology. If handled properly, you will enjoy many years of trouble-free operation.

Always operate your Actilino at normal room temperature and protect it from humidity. Avoid exposing the Actilino to extreme changes in temperature.

Always transport your Actilino in the included carrying case which provides impact protection. We recommend unplugging the keyboard during transportation to avoid damaging the cable.

Do not drop your Actilino and avoid exposing the device to strong vibrations.

Please keep the included lithium ion battery away from open fires and corrosive liquids and do not damage or burn it. Damaged lithium ion batteries have to be disposed in appropriate containers immediately.

Your Actilino will reward you if you take care to operate it with clean hands because otherwise the tactile pins can become sticky and may release only if prodded.

Please ensure that no liquids enter the Braille display. The Braille elements are especially sensitive to humidity, because humidity could destroy the high-voltage piezo elements.

We recommend covering the Braille display whenever it is turned off to prevent unnecessary intrusion of dust.

Clean your Actilino with a damp cloth. Do not use any cleaners. The Braille elements must be cleaned with a dry, lint free cloth only.

The Braille elements should be cleaned and serviced thoroughly every two years under average operating conditions. In general, during the service of the Braille elements all tactile pins and caps will be replaced, and all input elements checked. An endurance test will then be performed. Help Tech can provide you with a replacement device for the time, while your Actilino is being serviced.

11.6 Warranty

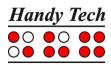
If you open the Actilino's housing, which is sealed, within the warranty period, the warranty becomes void. The same applies to improper handling or use.

In the unlikely event that your Actilino does become defective, our repair service will be available to you.

11.7 Technical Support

Your Actilino is a highly complex product. Although the Actilino has been optimized to be as easy to use and as self-explanatory as possible, errors in understanding or operation may occur, which may impede your use of the device.

Important Information



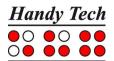
We recommend that you consult this manual first if you encounter difficulties. All procedures as well as error messages are described here. If this does not solve your problem, you have the option of reviewing possible solutions in the download area on Help Tech's web page, located at www.helptech.de.

As an alternative, you can also contact your dealer or local customer service representative. These agents receive ongoing training and information about the product, beyond what can be included in any manual.

If this does not result in the desired solution of your problem, do not hesitate to contact Help Tech GmbH in Horb directly. You have the following options:

Mail: Help Tech GmbH, Brunnenstr. 10, D-72160 Horb a. N., Germany

Phone: +49 7451 5546 55 Fax: +49 7451 5546 67 E-Mail: help@helptech.de



12 List of Key Combinations

The following list contains all important functions with their key combinations. The digits in the right column refer to Braille dots.

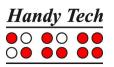
12.1 Navigating the Menu System

Function	Keys
One menu item to the left	TU or SPC+7 or SPC+1
One menu item to the right	TD or SPC+8 or SPC+4
First menu item within this level	SPC+1 2 3
Last menu item within this level	SPC+4 5 6
Move up one menu level	TLC
Select or move down one menu level	TRC
Toggle checkbox	SPC or TRC or CR keys
Select menu item directly	Hotkeys
Return to suspended Editor	SPC+1 2 3 4 5 6

12.2 Editor Functions

Function	Keys
Abort operations, cancel markings	TLC
Read text	TU or TD
Start automatic reading	SPC+TD
Change automatic reading speed	TU or TD, if automatic reading is active
Manual scrolling	SPC
Halt automatic reading	CR keys
Automatic scrolling via ATC on/off	Chord A (SPC+1 7)
Delete character at cursor position	SPC+4 5
Backspace	Chord b (SPC+1 2)
Cursor to top of file (Home)	SPC+1 2 3
Cursor to end of file (End)	SPC+4 5 6
Cursor to beginning of line	SPC+1 3
Cursor to end of line	SPC+4 6
Cursor to beginning of next sentence	SPC+5
Cursor to beginning of previous	SPC+2
sentence	
Cursor to next word	SPC+6
Cursor to previous word	SPC+3
Move cursor left	SPC+7
Move cursor right	SPC+8
Move cursor one line up	SPC+1
Move cursor one line down	SPC+4
Direct cursor placement	Cursor Routing Keys
Mark beginning of block	SPC+TRC or press CR key twice at
	beginning of block
Cut block	Chord x (SPC+1 3 4 6)

List of Key Combinations



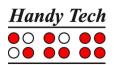
Copy block	Chord c (SPC+1 4)
Delete block (without copying)	Chord X (SPC+1 3 4 6 7) or SPC+1 2
Paste block	Chord v (SPC+1 2 3 6)
Exchange mark and cursor	SPC+7 8
Toggle insert/overwrite mode	Chord i (SPC+2 4) insert mode is default
Set mark	TU+TD
Jump to mark	Chord m (SPC+1 3 4)
Incremental forward search	Chord f (SPC+1 2 4)
Incremental backward search	Chord F (SPC+1 2 4 7)
Forward search and replace	Chord r (SPC+1 2 3 5)
Display character in ASCII	Chord D (SPC+1 4 5 7)
Insert current date	Chord d (SPC+1 4 5)
Insert current time	Chord t (SPC+2 3 4 5)
Save file (without closing it)	Chord s (SPC+2 3 4)
Open file from Editor	Chord o (SPC+1 3 5)
Open file in read-only mode	Chord O (SPC+1 3 5 7)
Switch to next file	SPC+5 6 8
Switch to previous file	SPC+2 3 7
Save and close file	Chord e (SPC+1 5)
Suspend Editor	SPC+1 2 3 4 5 6
Editor's Setup menu	Chord u (SPC+1 3 6)
Status display	Chord S (SPC+2 3 4 7)
Switch to PC Mode	Chord p (SPC+1 2 3 4)
Help	Chord h (SPC+1 2 5)

12.3 Keys in PC Mode

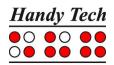
Function	Keys
Return to menu	Hold down SPC+1 3 4 about half a second
Switch between Braille display and	SPCL+SPCR
status module display	

12.4 Fixed Key Functions on External Keyboard

Function	Key/Key Combinations
Switch external keyboard to PC	Chord: (SPC+25)
Entire Braille display line to left	Page up
Entire Braille display line to right	Page down
Cursor to top of file	Ctrl+Pos1
Cursor to end of file	Ctrl+End
Toggle between insert and overwrite	Insert
Delete current character	Delete
Delete character left of cursor	Backspace
Set beginning of block	Ctrl+Enter
Copy block	Ctrl+c
Cut block	Ctrl+x
Delete block (without copying)	Ctrl+X or Backspace



[B	
Paste block	Ctrl+v
Exchange mark and cursor	Ctrl+Tab
Status display	Ctrl+S
Incremental forward search	Ctrl+f
Incremental backward search	Ctrl+F
Forward search and replace	Ctrl+r
ESC function	ESC
Navigation	Arrow keys
Cursor to previous word	Ctrl+Cursor left
Cursor to next word	Ctrl+Cursor right
Cursor to previous sentence	Ctrl+Cursor up
Cursor to next sentence	Ctrl+Cursor down
Cursor to beginning of line	Pos1
Cursor to end of line	End
Set mark	Ctrl+M
Jump to mark	Ctrl+m
Switch to next file	Alt+Tab
Switch to previous file	Alt+Shift+Tab
Suspend Editor	Ctrl+Space
Save file (without closing it)	Ctrl+s
Save and close file	Ctrl+e
Help	Ctrl+h
Editor's Setup menu	Ctrl+u
Switch to PC Mode	Ctrl+p
Display character in ASCII	Ctrl+D
Open file from Editor	Ctrl+o
Open file in read-only mode	Ctrl+O
Insert current date	Ctrl+d
Insert current time	Ctrl+t



13 Error Messages

This section contains the error messages that can be displayed on the Actilino. Some messages are always in English because they are not part of the message files. They come directly from the firmware because they have to be always available.

13.1 English Language Error Messages

These messages contain abbreviations which indicate the error status. Their meanings are:

- FER (Fatal Error): A serious error has occurred.
- ERR (Error): An error has occurred.
- WRN (Warning): The system is notifying you about something that may require your attention.

13.1.1 Fatal Errors

Fatal errors may result in lost data if you do not proceed with caution. BEFORE you take any further steps, please review chapter 11.1.2. It provides suggestions for saving as many of your files as possible.

Please act calmly — the Actilino will not take any action without your authorization!

"FER: Message file not found."

Cause: The current message file could not be opened. Remedy: The current message file must be reloaded.

"FER: Could not read MSG security header."

Cause: In order to be able to unequivocally identify a message file, the file includes

a security header at the beginning which provides various information. This

header could not be read correctly.

Remedy: The current message file must be reloaded.

"FER: Invalid Msgld."

Cause: A message was requested which is not contained in the current message

file.

Remedy: Please load the message files that match the currently used firmware

version.

"FER: Invalid header ID in MSG file."

Cause: The message file's security header contains invalid data.

Remedy: The current message file must be reloaded.

"FER: Invalid size of message file header."

Cause: The security header's size does not correspond to the size expected by the

firmware.

Remedy: The current message file must be reloaded.

"FER: Invalid maximum length of messages."

Cause: The maximum message length does not correspond to the maximum length

expected by the firmware.

Remedy: The current message file must be reloaded.

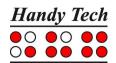
"FER: Expected MSG version xx, found yy."

Cause: The message file version does not correspond to the firmware version. You

may receive this message when you have updated only the firmware code,

but have not yet loaded the new message file.

Remedy: Load the message files that match the current firmware.



"FER in file system: Flash disk must be formatted."

Cause: A serious error occurred while checking the file system.

1. You have updated the firmware and the file system's version number has changed.

2. It is possible that no system sectors could be found, which would indicate that the file system is defective.

Remedy: The file system can only be restored by reformatting the medium.

Note: In the first case, you can turn off your Actilino, reload the old firmware and

transfer all of your valuable files to the PC. In the second case you have no

remedy other than reformatting the flash disk.

13.1.2 General Errors

"ERR reading KBD security structure."

Cause: The structure of the keyboard layout table loaded during start-up of the

Actilino contains errors. The table's structure is compromised.

Result: The default internal German table will be used.

Remedy: Download a valid keyboard layout table for the selected language.

"ERR: Invalid ID in KBD header."

Cause: The structure of the keyboard layout table loaded during start-up of the

Actilino contains errors. The table's ID is invalid.

Result: The default internal German table will be used.

Remedy: Download a valid keyboard layout table for the selected language.

"ERR: Invalid size of KBD header."

Cause: The structure of the keyboard layout table loaded during start-up of the

Actilino contains errors. The size of the security header is incorrect.

Result: The default internal German table will be used.

Remedy: Download a valid keyboard layout table for the selected language.

"ERR: Expected KBD version x, found y."

Cause: A keyboard layout table was loaded which does not match the current

firmware version. This can occur following a firmware update, because the

firmware expects a different table structure.

Remedy: Compile the layout table for the selected language with the BKC matching

the new firmware version or download a valid one.

"ERR: Invalid KBD table format."

Cause: The structure of the keyboard layout table loaded during start-up of the

Actilino contains errors. The format of the table is incorrect.

Result: The default internal German table will be used.

Remedy: Download a valid keyboard layout table for the selected language.

"ERR reading KBD table."

Cause: Errors occurred while reading the keyboard layout table loaded during the

Actilino start-up procedure.

Result: The default internal German table will be used.

Remedy: Download a valid keyboard layout table for the selected language.

13.1.3 Warnings and Messages

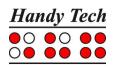
"WRN when initializing file system, Backup recommended!"

Cause: Errors were detected while testing the file system, but they do not indicate a

defective storage medium.

Remedy: Not necessary

Error Messages



Note: If this warning appears, it is advisable to back up the files stored on your

Actilino.

"FsVersion x.y, ERR: n: t."

Cause: This message appears following any error message relating to the file sys-

tem. It provides information regarding the current version of the file system

(x.y), the number of the error (n) and an error description (t).

"Formatting, please wait!!!"

Cause: This message appears while the storage medium is being reformatted

subsequent to a fatal error detected by the file system test.

Note: When formatting has finished, you must reload the contents of the folder

"HTSYS". All saved files will have been deleted.

"WRN: KBD layout not found. Using standard layout."

Cause: During the Actilino's start up procedure no valid keyboard layout table was

found for the selected language.

Result: The default internal German table will be used.

Remedy: Download a valid keyboard layout table for the selected language.

13.2 Error Messages from the Message File

The messages listed below come from the reloadable message file. They include messages of a general nature, system messages and Editor messages.

13.2.1 General Messages

"Please wait!!!"

Cause: This message appears while the system is executing a task requiring some

time. For example, this would be the case while the system is generating the

file list.

"Cannot execute this function"

Cause: A function cannot be executed.

"Deactivating function keys!"

Cause: A reminder that function keys have been deactivated. After turning the unit

off and back on, the function keys will again be active.

13.2.2 File System Messages

"No files stored on disk!"

Cause: There are no files stored on the storage media.

"Error creating braille character set file"

Cause: There is not enough memory in the file system to generate the Braille

character sets.

"New braille set file created! Please reload needed sets!"

Cause: The Braille character set file was recreated, because it was either missing or

its size was incorrect. You will have to reload the required character sets into

the Actilino.

"Braille set n is empty"

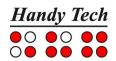
Cause: You are attempting to activate a Braille character set numbered x, but that

character set slot is empty.

"Error writing configuration file"

Cause: An error occurred while saving the configuration.

"Saving configuration, please wait!"



Cause: This message is displayed while the configuration file is being written.

"New configuration file created. Please check your settings!"

Cause: The configuration file was recreated, because it was either missing or its data

were incorrect. The settings have now reverted to factory defaults. You

should therefore check the settings and customize them to your liking.

"Fatal: Invalid MSGID! Please upload appropriate msg file!"

Cause: A message was requested that is not present in the currently loaded

message file. Loading the message file matching the current firmware for the

selected language will resolve the problem.

"File in use by editor. Please close it first"

Cause: You are attempting to delete or transfer a file which is currently open in the

Editor.

Result: The file cannot be deleted.

Remedy: Return to the Editor, then close the file and try again.

"Warning: Deleting this file can cause system instability"

Cause: You are attempting to delete a system file.

Result: The possible results depend on which file you are attempting to delete. For

example, if you delete the file containing the Braille character sets, that file will be regenerated once the Actilino has been turned off and back on again and you must then download the needed character sets again. However, if you delete the message file for the selected language, the Actilino can no

longer operate until you have reloaded it.

It is therefore recommended that you delete system files only when you are

completely clear on what the results will be.

You take on a great deal of responsibility by being given the option of deleting system files. Help Tech GmbH therefore accepts no warranty claims arising

from any damage caused by deleting system files.

"System files can not be deleted while the editor is active"

Cause: You are attempting to delete a system file while the Editor is in its suspended

state. However, this is not possible because the Editor accesses system

files.

Result: See above.

Remedy: First, close the Editor, then delete the system file. Please note that deleting

any system file can have serious consequences. Your Actilino may be

inoperable until the system file has been reloaded again.

13.2.3 Editor Messages

"Error writing file"

Cause: An error occurred while saving the file.

"Help not available":

Cause: You have activated the Help function. The Editor is searching for the

"Language_ HELP.HSF" file for the selected language, but the file cannot be

opened.

Remedy: Download the Language_HELP.HSF files to the Actilino.

"Bookmark x does not exist"

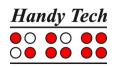
Cause: While jumping to a bookmark, you specified a mark that does not exist. X is

the name you entered.

Remedy: Try to enter the name of the mark again or navigate through the list of

available marks using the cursor-up and cursor-down commands.

Error Messages



"No bookmarks set"

Cause: You are attempting to jump to a mark, but no marks have been set for this

file.

"Search failed, wrap around (Y/N)?"

Cause: While searching for a text string, the Editor has reached either the beginning

or the end of the file (depending on the direction of the search) without having found the search term. If you respond by entering [y], the entire file will be searched for the same string again. If you respond to this prompt by entering

[n], the search will be aborted, and you can continue editing the text.

"No space to open another file"

Cause: You have already opened five files and are attempting to open another one.

However, the Editor can administer a maximum of five open files.

Remedy: Close any files not currently needed and then open the desired file.

"Variable x unknown"

Cause: You have entered an invalid argument for one of the variables in the Editor's

Setup menu. X is the variable you entered.

Remedy: Re-enter the variable or select one of the variables from the list by using the

cursor's up and down functions.

"x: valid range [m, n]"

Cause: The numerical value of a variable you entered is outside of the valid range.

Here, x is the name of the variable, m the minimum value and n the maximum

permissible value.

Remedy: Enter a value within the specified permissible range.

"Out of disk space"

Cause: While you are working within the Editor, the Actilino determines whether the

available memory is sufficient to save all of the open files. If this is not the

case, this message is issued.

Remedy: Try to save and close smaller files first, then close larger files.

"Out of page memory"

Cause: You are attempting to open a file, but there is not enough memory available

to divide the file into pages or to administer the pages.

Remedy: Close any files not currently needed.

"Disk almost full"

Cause: While you are working within the Editor, the Actilino determines whether the

available memory is sufficient to save all of the open files. This message

appears as a warning before it is too late.

Remedy: To ensure that you will be able to save all modified files, you should save or

close any files you no longer need open right away. Save any smaller files

first, which will free up some space, then larger files.

"Page memory almost full"

Cause: While you are working within the Editor, the Actilino constantly checks how

many pages can still be administered. The Editor can manage a total of 3072 pages. If only 10 more pages can be created, you will be notified with this

message.

Remedy: Close any files not currently needed to make room for more pages.

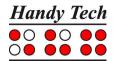
"Switching to read only mode"

Cause: You are attempting to open a file. The Editor determines that with the amount

of memory left, the file can be opened, but not edited.

Remedy: Close and save any files not currently needed.

"File x not found"



Error Messages

Cause: You are attempting to open a file in the Editor in read-only mode, but the file

was not found. X is the file name you entered.

Remedy: Try to re-enter the file name. It is important to note that the file name must

be entered with exactly the same spelling under which it is stored on the Actilino. If the result is again negative, you can suspend the Editor and open

the file from the file list.

"Writing x aborted"

Cause: While saving a file, you have pressed the [TLC] key. The saving process has

therefore been cancelled.

"Not enough space on disk"

Cause: You are attempting to cut, copy or save a text block to a new file. While

writing the block, the Editor determines that there is not enough memory

available for this operation.

"x in use, please close it first"

Cause: You have opened file x within the Editor and are currently working on a

different file. You are attempting to write to file x or to read data from file x. For example, you might have opened the clipboard within the Editor in order to make changes in it before pasting its contents to a file. If you try to cut or copy any other text block at this point, without first closing the clipboard, the Editor cannot execute that function and will instead notify you with this

message.

"Cannot open file x"

Cause: You are attempting to open the Editor's swap file. This is not possible,

because this file contains the portions of text that have been edited and it is

only accessible to the Editor itself. X is the name of the swap file.

"Copy to x failed"

"Cut to x failed"

"Paste from x failed"

Cause: You are attempting to execute block operations, but the file system cannot

provide the memory needed. X is the clipboard's file name.

"No space to open another file"

Cause: You tried to open a new file. The Editor is not able to do this. The Editor can

open only 5 files at one time.

Remedy: Close files, you do not need at the moment.

"End of text"

Cause: You are at the end of a file and are attempting to call up ASCII

representation.

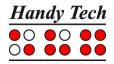
"Recreating editor configuration file"

Cause: The Editor has determined that the existing configuration file is incompatible.

A new Editor version may require a different file format for the configuration file. Should the Editor continue to use the existing configuration files for reading any file configurations, this could lead to complications. The configuration file contains the version number for this reason. If it does not match the Editor's internal version number, the configuration file is deleted and then regenerated. Although this causes the loss of all configuration settings saved for a file, such as marks, it is necessary because of safety

concerns.

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