USER MANUAL

Ascom a72 Devices

ascom

Abbreviations and Glossary

ALS	Acoustic Location Signal A loud audio signal used for localizing the handset.
Beep code	A configured sound used for paging
IM	Interactive Messaging A method to provide a two-way communication in plain language with a portable device
IR	A location system based on infrared light transmitters used to determine the location of a handset.
LF	A location system based on low frequency magnetic field used to determine the location of a handset.
Soft key	A pre-programmed key with the current function shown in the display of a portable device
WinPDM	Windows Portable Device Manager An application, running on a PC under Windows, for managing portable devices, charging racks, etc.

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1 Introduction

This document describes the Ascom a72 devices:

- a72 Pager
- a72 Alarm
- a72 Protector

The a72 devices included in the Ascom Paging System are easy to use and designed to function in tough environments.

The devices are described according to their default programmed version, but additional functions and factory settings are also included in the document, providing a full description of the functionality.

As a complement, *Ascom Paging System, System Description, TD 91034EN* is recommended.

Note that your system may not supply all functions described in this document. For information please contact the supplier.

The main functions of the respective a72 model are listed in Table 1 Function overview, page 1. Intrinsically safe (ATEX/IECEx) versions are available as an option.

Table 1 Function overview

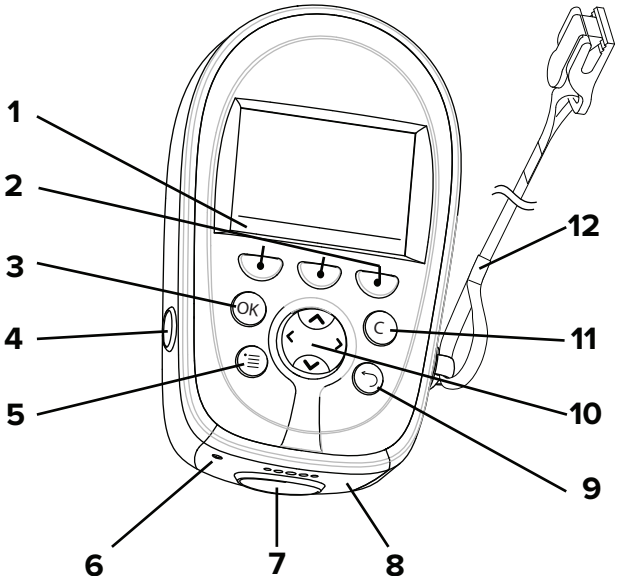
Functions	a72 Pager	a72 Alarm	a72 Protector
Vibrator function	X	X	X
Messaging	X		X
Acknowledge			X
Group messaging	X		X
Data send			X
Data send with prefix			X
Availability information/Absence			X
Push-button alarm		X	X
Man-down & No-movement alarm		X	X
Pull-cord alarm		X	X
Acoustic Location Signal		X	X
Location function[1]		X	X
Intrinsically safe (ATEX/IECEx)	Option		Option

1. System dependent feature

2 Description

This section describes the a72 device and available accessories.

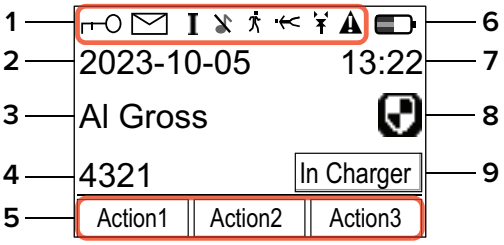
Figure 1. Overview of the a72 device



1	Soft key field
2	Soft keys
3	OK key
4	Mute button
5	Menu key
6	LED
7	Alarm button (a72 Alarm and a72 Protector only)
8	IR receiver
9	Return key
10	Navigation key
11	C key
12	Pull-cord (a72 Alarm and a72 Protector only)

2.1 Display

The display shows the following information:



1	Icon field: Notifications on active alarms, messages, settings, etc.
2	Current date
3	Owner identity (name)
4	Call number of the handset
5	Soft key field: User defined functions for the three soft keys beneath the display
6	Battery level
7	Current time
8	Handset model symbol
9	Status of the handset

2.1.1 Display Icons

Icon	Name	Description
	Pager	Indication of a72 Pager model
	Alarm	Indication of a72 Alarm model
	Protector	Indication of a72 Protector model
	Audio signal off	Indication that all alert signals are turned off, including ring signal, message tone, key beep, etc. High priority messages will however override this setting.
	Full battery	Indication that the battery has 75 to 100% remaining capacity.
	Low battery level	Indication that the battery has less than 25% remaining capacity,
	Empty battery warning	Indication that the battery has less than 7% remaining capacity.
	New message	Indication that a new message is received. The number on the right side of the icon shows the total number of unread messages. The symbol will remain until the message is read.
I	New info message	Indication that a new info message is received. The symbol will remain until the info message is read.

●	Unread message	The symbol is added in front of unread messages in the message list.
✓	Read message	The symbol is added in front of read messages in the message list.
	Response required	The symbol is added in front of messages that require a response.
	Response sent	The symbol is added in front of messages that have been responded to.
	Key lock	Indication that the keypad is locked
	No-movement alarm on	Indication that the no-movement alarm is activated.
	Man-down alarm on	Indication that the man-down alarm is activated.
	Pull-cord alarm on	Indication that the pull-cord alarm is activated.
⚠	Error	Indication that an error has occurred. Service is needed.

Menu icons:

	Messages menu	See 8.1 Messages, page 23 for more information.
	Profiles menu	See 8.2 Profiles, page 24 for more information.
	Services menu	See 8.3 Services, page 25 for more information.
	Settings menu	See 8.4 Settings, page 25 for more information.

2.2 Buttons

For buttons on the a72 device, see Figure 1. *Overview of the a72 device*, page 2.

- The **Mute button** is used to silence the beep, vibrator, and LED signals, including the Acoustic Location Signal (ALS).
- The **Alarm button** (a72 Alarm and a72 Protector only) is used to send alarms. The button can be used for test alarm. The function of the button is configurable.

2.3 Keys

For keys on the a72 device, see Figure 1. *Overview of the a72 device*, page 2.

- The three soft keys are located just beneath the display. The function of each soft key is shown as text in the display just above the key. In stand-by mode the soft keys can be used for specific functions defined by the administrator.

- < > The navigation key is used to control the movement of the cursor in the display.
- OK is used to confirm choices in the menu.
- C is used to delete messages and clear check boxes in the menu.
- is used to step backwards when navigating the menu tree.
- is used to access or leave the menu.

Shortcut Keys

With WinPDM it is possible to assign the keys different shortcut functions for use in standby mode. Different actions can be triggered for short and long press of the key.

Neither the menu keys nor the alarm and mute buttons can be used as shortcut keys.

To check which function that is assigned to the shortcut keys, see 8.4.14 View Shortcut Keys, page 28.

2.4 Case

The case is made of durable PC/ABS plastic and is IP64 classified. The a72 device also fulfills IEC 60068-2-32 procedure 1, which makes it drop proof from one meter onto concrete. Ascom approves drops from 1.5 meters.

The IR receiver is covered by IR-transparent smoke colored plastic, with openings for LED light, buzzer sound, and alarm button. A name label is located next to the clip.

2.5 Antenna

The antenna used for communication with the fixed system is integrated in the a72 device. This makes the handset robust and easy to handle.

2.6 Belt Clip

The hinge-type clip on the back of the device can be used to fasten the handset to a belt, pocket, or similar. It is also possible to change to a swivel-type clip.

2.7 Battery

The battery is a rechargeable lithium-ion battery, see *Ascom a72, Safety Leaflet, PM000360* and 3 Safety Instructions, page 8.

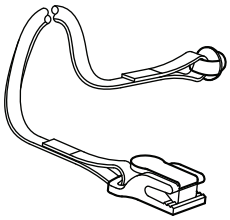
2.8 Pull-cord (Option)

Only available for a72 Alarm and a72 Protector.

The pull-cord is made of an ABS plastic attachment connected to a canvas ribbon. The end of the ribbon has a clip which must be safely attached, for example to the clothes. The pull-cord is also used as a security string, which prevents the device from falling to the ground.

The device can be used without the pull-cord option. Remove the pull-cord and plug the hole with the provided ABS lid.

Figure 2. Pull-cord

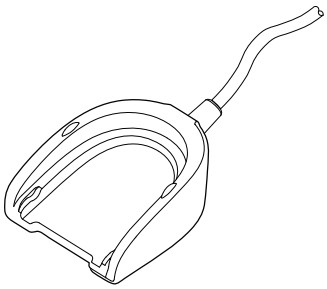


2.9 Single Charger

The single charger is a separate unit used for charging the device. Connect the single charger by pushing it under the clip. The single charger is connected to a power supply which has four exchangeable plug-in contacts which fit into an ordinary wall socket in many countries.

For more information about the single charger, see *Single Charger for Paging Portables, Data Sheet, TD 92353GB*.

Figure 3. Single charger



2.10 Programming Device

Similar to the single charger in design, the programming device is used to connect the a72 device to a computer in order to upgrade the firmware and edit parameters. For more information see *Ascom a72, Configuration Manual, TD 93617EN*.

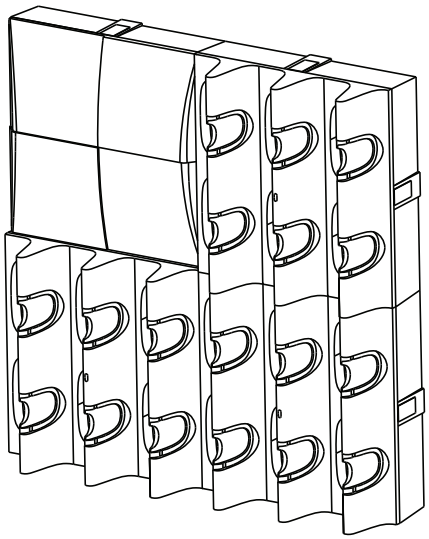
2.11 PCR Charging Rack

The wall mounted PCR charging rack is used for charging the devices. The PCR is a modular system that consists of a master module (PCR-M), extension modules (PCR-E) and power supplies. Each PCR module has six charging slots. One PCR-M can support up to 20 PCR-E, which gives a charging possibility of 126 devices. A power supply feeds up to three charging rack modules (one PCR-M and two PCR-E), which results in seven power supplies for the above example.

Devices with a pull-cord/security string can be charged in the PCR charging rack without removing the pull-cord. For further information about the PCR refer to the *Portable Charging Rack, Data Sheet, TD 92355EN* and *PCR Charging Rack, Installation Guide, TD 92356EN*.

When charging an intrinsically safe ATEX/IECEx device in a PCR charging rack, the rack must be version 2A or higher.

Figure 4. PCR with power supply, one PCR-M, and two PCR-E



2.12 Accessories

Belt Clip, Swivel-type

A special swivel-type belt clip which can replace the ordinary hinge-type belt clip. The swivel-type belt clip is adapted to firmly place the device in the belt.

Leather Case

A leather case which is specially designed to protect the device from wear and tear, also when it is in use. The belt clip does not need to be removed from the device.

Name Label Kit

A name label which can be attached to the device as means for personal identification.

3 Safety Instructions

For safe and efficient operation of the a72 device, observe the guidelines given in this manual and all necessary safety precautions when using the device. Follow the operating instructions and adhere to all warnings and safety precautions located on the product, in the Quick Reference Guide, and in this User Manual.

Caution

a72 device operation conditions:

Only use the device in temperatures from -10 °C to +55 °C (+40 °C for ATEX/IECEx).

Avoid exposure to direct sunlight and other heat sources.

Battery

The standard a72 models as well as the intrinsically safe ATEX/IECEX a72 models shall only be used with the following battery:

Art. No. 491155A Li-ion Battery (CHAT2 std/EX)

Caution

Battery safety and handling:

Do not immerse in water or throw into fire.

Do not disassemble.

Dispose of properly.

Do not expose to high temperature (60 °C / 140 °F).

Use only specified chargers.

Do not short-circuit.

Available power adapters:

Art. No. 660093/2A PCR Charging rack

Art. No. 660109 Power supply unit AC/5V DC/1A (Single charger)

Warranty Notification

Do not disassemble the a72 device. Disassembling the device voids the warranty.

The a72 device consists of no consumer serviceable components. Service should be performed by an authorized service center only.

3.1 ATEX/IECEx Safety Instructions

Intrinsically Safe Classification

Refer to *Ascom a72, Safety Leaflet, PM000360*.

Caution

Hazardous area safety and handling:

The product is housed in an enclosure that meets IP54. However, the ATEX/IECEx classified device is not intended to be immersed in dust or water.

In the case of damage suspect, do not use the ATEX/IECEx classified device in a hazardous area.

Make sure that the product marking corresponds to the site requirements.

Before installation consult the product documentation.

National safety rules and regulations have to be observed.

Do not use accessories to the product without ensuring that they are suitable for use in a hazardous area

Modification of the product is not permitted.

Product repair has to be done at authorized repair shops only.

Battery

For approved battery types, see EU Type Examination and IECEx Scheme Certificate of Conformity and following supplements. These documents can be found at:

https://www.ascom-ws.com/doc/

http://www.iecex.com

For recommended battery with ordering information, see 3 Safety Instructions, page 8 or *Ascom a72, Safety Leaflet, PM000360*.

For instructions regarding charging of the battery, see 4.4 Charge the Battery, page 11.

For instructions regarding removal of the battery, see 9.2 Replace the Battery in Intrinsically Safe Devices, page 31.

Caution

IMPORTANT!

Charging or replacement of an ATEX/IECEx battery is NOT permitted in a hazardous area.

3.2 Regulatory Compliance Statements (EU/EFTA only)

This equipment is intended to be used in the whole EU & EFTA.

This equipment is in compliance with the essential requirements and other relevant provisions of Radio Equipment Directive 2014/53/ EU, Directive (RoHS3) 2015/863 amending 2011/65/EU, and of ATEX Directive 2014/34/EU (EX version).

The complete Declaration of Conformity is available at:

https://www.ascom-ws.com/doc/

This equipment uses frequencies referring to different rules in the various EU and EFTA countries. A radio communication licence is in most cases necessary for the use of the equipment. The frequencies required for operation of the radio equipment must be notified and assigned prior to usage of the equipment.

3.3 Regulatory Compliance Statements (USA and Canada only)

FCC Compliance Statements

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

CAN ICES-3 (B)/NMB-3(B)

Information to User

This device complies with Part 15 of the FCC rules and with Industry Canada licence-exempt RSS standard (s).

Operation is subject to the following two conditions:

1. this device may not cause harmful interference, and
2. this device must accept any interference received, including interference that may cause undesired operation.

Modifications

Changes or modifications to the equipment not expressly approved by the party responsible for compliance could void the user’s authority to operate the equipment.

4 Basic Operation

4.1 Switch the Device On/Off

To switch the device on:

1. Press and hold by OK.
2. Press the **Yes** soft key.

To switch the device off:

1. Press and hold .
2. Press the **Yes** soft key.

4.2 Mute the Device

A short press on the **Mute** button on the left side silences the device when sounding.

To turn the audio signals off completely, press and hold the **Mute** button on the left side of the device.

The (audio signal off) symbol is shown in the display.

4.3 Lock the Keys Manually

To lock the keypad:

1. In stand-by mode, shortly press C.
2. Press the **Yes** soft key.

The key lock symbol is shown in the display.

To unlock the keypad:

1. Shortly press C.
2. Press the **Yes** soft key.

4.4 Charge the Battery

Charging is done in a single charger or a wall mounted charging rack. It is recommended that the device is charged daily.

When charging an intrinsically safe ATEX/IECEx device in a PCR Charging Rack, the rack must be version 2A or higher. See also 3.1 ATEX/IECEx Safety Instructions, page 8 and *Ascom a72, Safety Leaflet, PM000360*.

Caution

IMPORTANT!

Charging or replacement of a battery is NOT permitted in a hazardous area.

1. To charge the battery put the device into the charger.
2. Charge the battery for at least two hours before using the device for the first time.
   It takes approximately two hours to charge the battery when it is empty.

Battery Status Indications

- An empty battery icon in the display and a warning beep signal played once every minute together with a fast flashing red LED indicates an empty battery.
- A flashing orange LED indicates charging.
- A green steady LED and a filled battery icon in the display indicates a fully charged battery.

While charging, Man-down & No-movement alarms are automatically deactivated.

The Location Function (IR and LF) is also deactivated. (If a push-button alarm is activated, the last stored location before charging the device is sent).

To replace the battery, see 9.1 Replace the Battery, page 31 and 9.2 Replace the Battery in Intrinsically Safe Devices, page 31.

5 Alarm Functions

Only applicable to a72 Alarm and a72 Protector.

To secure a safe transmission of an alarm, every alarm is sent in two sequences. The number of times an alarm is sent in each sequence is configurable in WinPDM.

A beep, vibrator, LED signal, and an “Alarm sent” popup can confirm that an alarm has been sent. These feedback signals of a sent alarm are all configurable.

Common Alarm Configurations

The following parameters are common for the Test alarm, Personal alarm, Man-down & No-movement and Pull-cord alarm types.

- Number of alarm transmissions per sequence
- Beep feedback
- LED feedback
- Vibrator feedback
- “Alarm sent” text feedback

5.1 Push-button Alarms

Personal Alarm

To send a personal alarm, double-press (twice or more) the Alarm push-button on the underside of the device. **Personal Alarm** will be displayed.

Depending on the set parameters, a beep is heard, the green LED flashes once, and the vibrator is buzzing.

Test Alarm

To send a test alarm, press and hold the Alarm push-button on the underside of the device until **Test Alarm** is displayed.

Depending on the set parameters, a beep is heard, the green LED flashes once, and the vibrator is buzzing.

Send a test alarm every day to test the device and the system.

Assistance Alarm

If configured in WinPDM, this alarm can be used as a request for discreet assistance.

Depending on settings in WinPDM, an assistance alarm can be sent by pressing an assigned short-cut key.

It is configurable whether beep, LED, and vibrator feedback of the assistance alarm shall be muted or not.

5.2 Pull-cord Alarm

An alarm is sent when the pull-cord is pulled off the device. Depending on the set parameters, a beep, vibrator and/or LED signal confirms that the alarm has been sent.

The pull-cord must have been attached for more than 5 seconds before it is pulled off for the device to be able to generate an alarm.

Make sure that the clip of the pull-cord is safely attached to your clothing. To make a physical test, remove the battery from the device. Pull the device away and make sure that the pull-cord releases from the device as it should.

5.3 Man-down & No-movement Alarm

Man-down Alarm

If the device is tilted more than 55° for a preset time (default 7 seconds), a Man-down alarm will be sent.

No-movement Alarm

If no movement is detected during a preset time (default 30 seconds), a No-movement alarm will be sent.

Note that these alarms are not sent directly when triggered. First a warning message is shown in the display: **Man-down alarm** or **No-movement alarm**.

A warning signal called “Man-down/No-movement warning” is also heard during a period (default 7 seconds). The warning signal always starts with a couple of low volume beeps which are then followed by high volume beeps, alternating with the vibrator.

The warning messages and the warning signals are active until the device is moved or until the alarm has been sent.

- To prevent the alarm from being sent, move the device or press any button.
- If no button is pressed, the alarm is sent.

Depending on the set parameters, a beep, vibrator, and/or LED signal confirms that the alarm has been sent. If configured in WinPDM, an acoustic location signal can be activated after the alarm has been sent, see 5.4 Acoustic Location Signal (ALS), page 15.

5.3.1 Extra Delay

If the parameter **Extra delay** is enabled, the detection of Man-down and No-movement alarms can be disabled for a configurable time (default 10 minutes).

To activate the extra delay:

1. When the warning signal sounds, press the **Mute** button.
2. Press **Yes**.

5.3.2 Configuration of Man-down and No-movement Alarm

The following parameters in WinPDM can be used to configure how the man-down and no-movement alarm should work:

- Time of the Man-down detection phase (time of a tilted state)
- Time of the No-movement detection phase (time of a non-moving state)
- Duration of the Man-down/No-movement warning phase
- Automatic cancellation of man-down warnings
- Extra delay activation
- Extra delay time
- Vibrator and beeper warning indications

- Audio signal for location (ALS)
- In charger alarm enabling
- Automatic key lock off at Man-down/No-movement warnings

For information on how to do the configuration, refer to the *Ascom a72, Configuration Manual, TD 93617EN* and the WinPDM help function for each parameter.

5.3.3 Reactivate the Man-down and No-movement Alarm Functions

When a Man-down alarm has been sent, the alarm function can be activated again by moving the device to an upright position, that is, with the alarm button pointed upwards. A new Man-down alarm can then be sent once triggered.

Similarly, when a No-movement alarm has been sent, the alarm function can be reactivated by moving the device, thereby enabling a new detection of No-movement.

It is also possible to reactivate the alarm functions by pressing the Mute button.

If ALS is enabled, the Man-down or No-movement alarm functions can only be reactivated if the Mute button is pressed first.

5.4 Acoustic Location Signal (ALS)

Depending on set parameters, the ramped up ALS is played after an alarm. The signal is always ramped from the lowest volume to the highest.

- To turn the ALS off, press the **Mute** button on the left side of the device.

Depending on the WinPDM settings, it is possible to make the user enter a password when turning the ALS off. The password is the same as the login password.

ALS is configurable for Man-down & No-movement alarm, Push-button alarm and Pull-cord alarm.

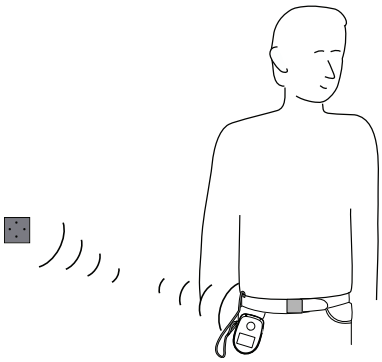
5.5 Location Function (IR or LF)

The location of the a72 device, received via either infrared light (IR) or low frequency transmission (LF), is automatically sent along with an alarm.

If both IR and LF are enabled, the device first handles IR and then LF. Depending on set parameters, a beep signal and/or a flashing green LED indicates that a location (a new or the same) has been received.

The top glass of a device with an IR receiver must never be covered.

Figure 5. IR function of the a72 handset



Configuration of Location Function

The following parameters are configurable:

- Beep activation when receiving the location
- LED activation when receiving the location

5.6 Special Location Function

If the fixed locators have been set to send a “special location code”, the a72 device can automatically send an alarm directly after having received the code.

6 Messaging

Only applicable to a72 Pager and a72 Protector.

6.1 Message Indications

When a new message has been received, this is indicated with the following:

- Flashing LED
- Message tone (depending on configuration)
- Vibration (depending on configuration)
- symbol in the upper left of the display

The message is viewed in the display.

To silence the message tone, press the **Mute** button.

The message tone will break through silent mode if the message is urgent.

The current message can be deleted by pressing C.

Info Message

An info message contains information that is updated frequently, such as measurements in a production process, exchange rates, or stock market notations. The info messages are handled in the same way as an ordinary message.

- When a new info message has been received, this is indicated with the symbol in the display.

The device can receive one info message per call number.

6.2 Stored Messages

Message Queue

If a new message is received while another message is being read, the new message will replace the old message in the display. The old message will be placed in the message list.

Message List

Messages are stored in the **Message List**, where they are indicated with the following:

- ● Unread message
- ✓ Read message
  By pressing any key (not alarm) the received message is marked as read.
- As long as there are unread messages they will still be indicated with in the upper left of the display. When all messages are read, the symbol disappears.

The last 20 messages are stored in the message list.

See 8.1.1 Message List, page 23 for further instructions.

Info Message List

The info messages are stored in the **Info Message List**, where they are handled in the same way as an ordinary message.

- ● Unread info message
- ✓ Read info message
  By pressing any key (not alarm) the received message is marked as read.
- As long as there are unread info messages they will be indicated with I in the display. When all info messages are read, the symbol disappears.

Up to six info messages are stored in the info message list. Only one message per call number is saved.

See 8.1.2 Info Message List, page 24 for further instructions.

6.3 Messages with Request for Answer

A message with a request for answer is indicated and viewed in the same way as an ordinary message, but the soft keys are used to respond, for instance pressing **Accept** or **Reject**.

An acknowledgement message is shown.

6.4 Soft Key Configuration

Only available for a72 Protector.

The message tones consist of beep codes (0 to 7) for which the soft keys can be configured in WinPDM. It is possible to define:

- which soft keys to be shown
- the text on the soft keys
- the action of the soft keys

The available actions are Data send, Data send with prefix, Accept, and Reject.

See *Ascom a72, Configuration Manual, TD 93617EN* for more information.

6.5 Data Send Function

Only available for a72 Alarm and a72 Protector.

It is possible to send data from the a72 device by pressing a pre-programmed soft key or by selecting a service. The data send function can be used for opening a door, starting or stopping a machine, etc. The configuration is done in WinPDM.

There are two data send functions:

- **Data send** which is data that is predefined for a soft key (a72 Protector only) or service (a72 Alarm and a72 Protector).
- **Data send with a prefix** which is data that could be predefined for a soft key (a72 Protector only), or manually entered by the user for a selected service (a72 Alarm and a72 Protector).

See 8.1.3 Send Data, page 24 and 8.3 Services, page 25 for further instructions.

7 Menu Tree

The menus and their available selections vary depending on a72 model and the configuration that has been applied to the individual device. The description of the menu tree provides an overview of most available functions.

7.1 Navigate the Menu

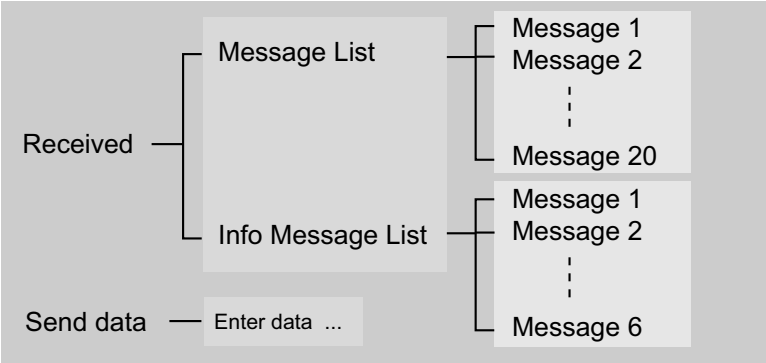
Depending on a72 model, the main menu shows the symbols for the applicable menus, the selected menu being highlighted:

The alternatives in the submenus are displayed in a list.

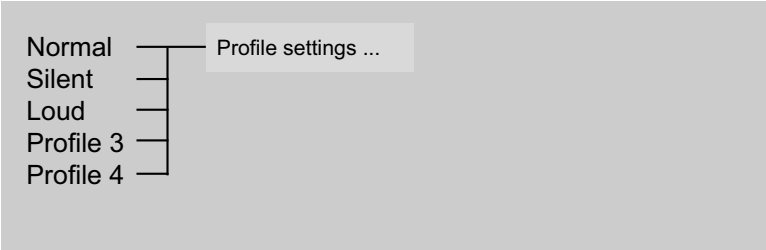
1. Enter the main menu by pressing the menu key .
2. Navigate the menu using the navigation key .
3. Leave any menu screen by pressing the return key .
4. Return to idle mode by pressing the menu key .

The three soft keys below the display are used for functions described by text in the soft key field in the display. Examples of such functions are Save, Delete all, Yes, No, etc.

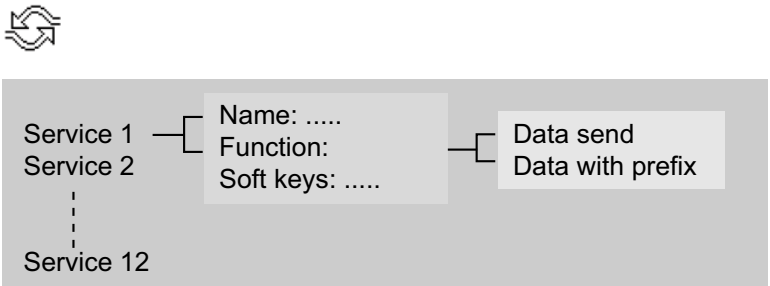
7.2 Messages Menu



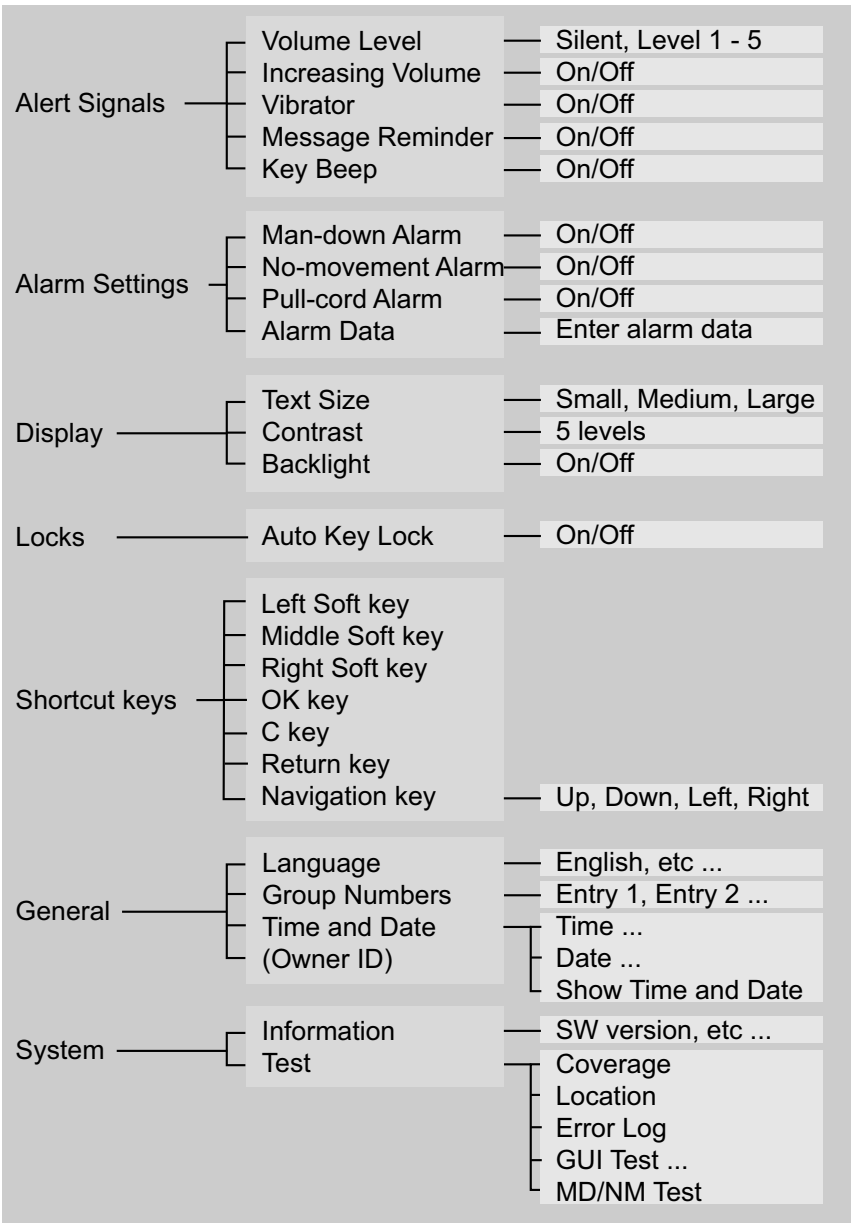
7.3 Profiles Menu


Normal
Silent
Loud
Profile 3
Profile 4
Profile settings ...

7.4 Services Menu



7.5 Settings Menu



The Alarm Settings menu is enabled by default, but can be disabled via WinPDM, see *Ascom a72, Configuration Manual, TD 93617EN*.

8 Menu Operations

8.1 Messages

Lists with all received messages and info messages are found under this menu.

Only available for a72 Pager and a72 Protector.

Handle Messages

1. Press .
2. Select and press OK.

8.1.1 Message List

Pressing the key from the main screen goes directly to the message list.

To enter the message list from the menu:

1. In the Messages menu, select **Received** and press OK.
2. Select **Message List** and press OK.
3. Navigate the list using and .

All messages are either marked as read ✓ or unread ●.

Read a Message

1. Select the message and press OK to open the message.
   If the clock and date function is set, the message is displayed along with the time it was received. The time stamp is changed to a date stamp the following day.
2. Skip between messages using < >.
3. Press to return to the message list.

Delete a Message

1. Select the message and press C.
   The question **Delete message?** appears.
2. Press **Yes**.
   The message list is displayed.

A message can also be deleted directly at reception by pressing C.

Delete All Messages

1. In the message list, press **Delete all**.
   The question **Delete all messages?** appears.
2. Press **Yes**.

All messages deleted is shown.

8.1.2 Info Message List

The info message list is handled in the same way as the message list.

To enter the info message list:

1. In the Messages menu, select **Received** and press OK.
2. Select **Info Message List** and press OK.
3. Navigate the list using ^ and v.

All info messages are either marked as read ✓ or unread ●.

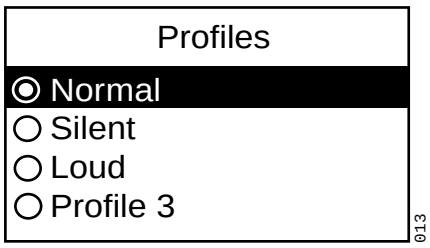
8.1.3 Send Data

To enter the data send function:

1. In the Messages menu, select **Send Data** and press OK.
2. Use ^ or v, or < > to mark a digit in the virtual number pad and press OK to select the digit.
   - To insert a digit in the middle of the text string, press **Edit** and use < > to select where to insert the digit.
   - Press **Insert** to insert the digit.
   - To remove the previous digit, press C.
3. Press **Send**.

8.2 Profiles

It is possible for the user to define up to five different profiles in the a72 device. Three profiles are preset at delivery; Normal, Silent, and Loud.



The profiles are configured in WinPDM and can, for example, consist of different ring signals and volumes. Another example is when several users are sharing the same device. Each user can then define their own settings, for example; type of ring signal, volume, soft key settings, etc.

A soft key can be programmed to change profiles, see *Ascom a72, Configuration Manual, TD 93617EN* for more information.

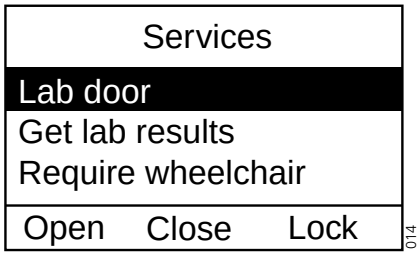
Select Profile

1. Press ≡.

2. Select and press OK.
3. Select profile in the list using ^ or v.
4. Press OK.

8.3 Services

Twelve different services can be defined for the a72 device. The services are configured in WinPDM, see *Ascom a72, Configuration Manual, TD 93617EN* for more information.



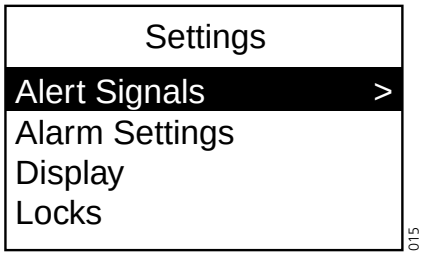
Activate a Service

1. Press .
2. Select and press OK.
3. Select the desired service in the list using ^ and v.
4. Press OK, or suitable soft key, to activate the service.
   If data is sent, the text **Sending** is shown.

The device will automatically return to the list and the selected service is marked.

8.4 Settings

It is possible for the user to change the settings for Alert signals, Alarm settings, Display, Locks, Shortcut keys, General and System.



Change a Setting

1. Press .
2. Select and press OK.
3. Select submenu in the list using ^ and v.

4. Press OK to enter the menu.

The following submenus are present:

- **Alert Signals**: Change the settings for all audible signals and the vibrator.
- **Alarm Settings**[1]: Turn the alarms on/off.
- **Display**: Change the text size and contrast; turn backlight on/off.
- **Locks**: Select if the keys are automatically locked.
- **Shortcut Keys**: View which function that is assigned to each shortcut key.
- **General**: Change Language, Group Numbers, Time and Date.
- **System**: View information about the system and access test functions.

8.4.1 Change the Volume

1. In the Settings menu, select **Alert Signals** and press OK.
2. Select **Volume Level** and press OK.
3. Select the desired volume level using the < > keys. There are six volume levels: Silent and level 1 to 5.
4. Press OK or **Save** to activate the choice.

8.4.2 Increasing Volume On/Off

1. In the Settings menu, select **Alert Signals** and press OK.
2. Select **Increasing Volume** and press OK.
3. Select (on) or clear (off) the checkbox.

8.4.3 Vibrator On/Off

1. In the Settings menu, select **Alert Signals** and press OK.
2. Select **Vibrator** and press OK.
3. Select (on) or clear (off) the checkbox.

8.4.4 Message Reminder On/Off

The message reminder is a beep that is repeated every 60 seconds for an unread message.

1. In the Settings menu, select **Alert Signals** and press OK.
2. Select **Message Reminder** and press OK.
3. Select (on) or clear (off) the checkbox.

1. The Alarm Settings menu is enabled by default, but can be disabled via WinPDM, see *Ascom a72, Configuration Manual, TD 93617EN*

8.4.5 Key Beep On/Off

1. In the Settings menu, select **Alert Signals** and press OK.
2. Select **Key Beep** and press OK.
3. Select (on) or clear (off) the checkbox.

8.4.6 Activate/Deactivate Man-down Alarm

1. In the Settings menu, select **Alarm Settings** and press OK.
2. Select **Man-down Alarm** and press OK.
3. Select (activate) or clear (deactivate) the checkbox.

8.4.7 Activate/Deactivate No-movement Alarm

1. In the Settings menu, select **Alarm Settings** and press OK.
2. Select **No-movement Alarm** and press OK.
3. Select (activate) or clear (deactivate) the checkbox.

8.4.8 Activate/Deactivate Pull-cord Alarm

1. In the Settings menu, select **Alarm Settings** and press OK.
2. Select **Pull-cord Alarm** and press OK.
3. Select (activate) or clear (deactivate) the checkbox.

8.4.9 Set Alarm Data

1. In the Settings menu, select **Alarm Settings** and press OK.
2. Select **Alarm Data** and press OK.
3. Use ∧ or ∨, or < > to mark a digit in the virtual number pad and press OK to select the digit.
   - To insert a digit in the middle of the text string, press **Edit** and use < > to select where to insert the digit.
   - Press **Insert** to insert the digit.
   - To remove the previous digit, press C.
4. Press **Save** and **Yes** to save the Alarm Data string.

8.4.10 Change the Message Text Size

1. In the Settings menu, select **Display** and press OK.
2. Select **Text Size** and press OK.
3. Choose between **Large Size**, **Medium Size**, and **Small Size**.

4. Press OK.

8.4.11 Backlight On/Off

1. In the Settings menu, select **Display** and press OK.
2. Select **Backlight** and press OK.
3. Select (on) or clear (off) the checkbox.

8.4.12 Change the Contrast

1. In the Settings menu, select **Display** and press OK.
2. Select **Contrast** and press OK.
3. Select the desired contrast using < >.
4. Press **Save** or OK.

8.4.13 Turn Automatic Key Lock On/Off

1. In the Settings menu, select **Locks** and press OK.
2. Select **Auto Key Lock** and press OK.
3. Select (on) or clear (off) the checkbox.

In stand-by mode a locked device is indicated by in the display.

8.4.14 View Shortcut Keys

All keys except those for alarm, mute and menu can be assigned different functions in WinPDM. They can be configured to trigger an action on either short or long press.

To check which function that is assigned to the shortcut keys:

1. In the Settings menu, select **Shortcut keys** and press OK.
2. Select a key and press OK.
   Information about the assigned function is displayed.

8.4.15 Select Language

1. In the Settings menu, select **General** and press OK.
2. Select **Language** and press OK.
3. Select the desired language using the ^ or v keys.
4. Press OK.

8.4.16 Group Numbers

Group numbers makes it possible to send a message to multiple devices. The group numbers are defined in WinPDM.

To activate group numbers:

1. In the Settings menu, select **General** and press OK.
2. Select **Group Numbers** and press OK.
3. Select the group number using ^ or v.
4. Press OK.
5. Select (activate) or clear (deactivate) the checkbox for the selected group number.

8.4.17 Show Time and Date

This function is available depending on the system setting.

1. In the Settings menu, select **General** and press OK.
2. Select **Show Time and Date** and press OK.
3. Select (activate) or clear (deactivate) the checkbox .

8.4.18 Set Time and Date Format

1. In the Settings menu, select **General** and press OK.
2. Select **Time and Date** and press OK.

Set Time Format

1. Select **Time** and press OK.
2. Scroll to the preferred time format using ^ or v.
3. Press OK.

Set Date Format

1. Select **Date** and press OK.
2. Scroll to the preferred date format using ^ or v.
3. Press OK.

8.4.19 Display System Information

1. In the Settings menu, select **System** and press OK.
2. Select **Information** and press OK.
   Information about hardware ID, software versions, etc. is displayed.

8.4.20 System Test

To view the system test menu in the device, test mode has to be activated in WinPDM.

1. In the Settings menu, select **System** and press OK.
2. Select **Test** and press OK.

Coverage Test

To display the RSSI value:

- Select **Coverage** and press OK.

The RSSI should typically have a value above 100 to ensure sufficient coverage.

Location Test

To display the current (latest received) location:

- Select **Location** and press OK.

Error log

To view the error log:

- Select **Error Log** and press OK.
  A list of recent system errors (if any) is displayed.

GUI Test

To test features such as LEDs, screen, backlight, vibrator, and beeps:

1. Select **GUI Test** and press OK.
2. Select the feature to test and press OK.

MD/NM Test

To test Man-down and No-movement alarm:

- Select **MD/NM Test** and press OK.

9 Maintenance

Caution

Use only original accessories.

Installation and repairs should be done by authorized personnel only.

Keep the recharging contacts on the device away from metallic and greasy objects.

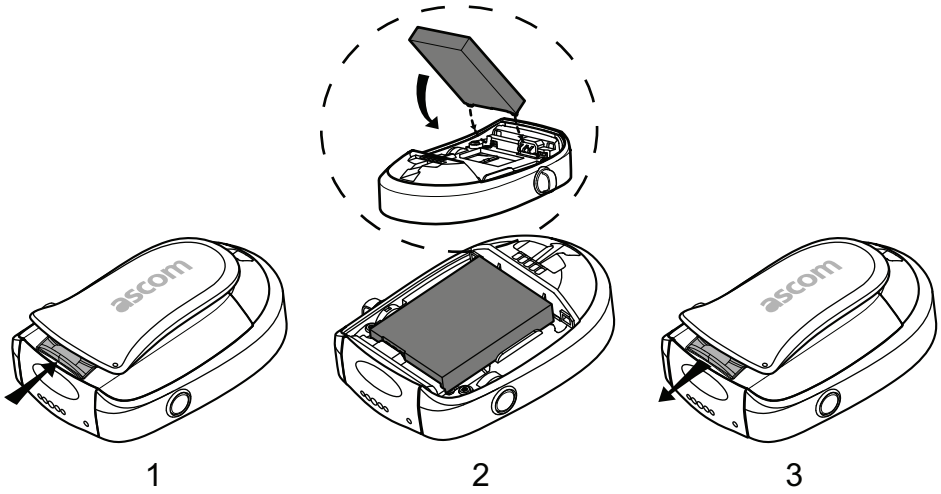
9.1 Replace the Battery

Only for standard a72 devices that are not EX classified.

The plastic plate at the back of the device is used to lock and unlock the battery lid.

1. Push the plate to release the battery lid, see (1) in Figure 6. *Battery replacement*, page 31.
2. Remove the lid and the battery.
3. Insert the new battery into the battery compartment (2).
4. Fasten the battery lid. Note that the hooks of the rear shall be inserted first.
5. Close the lid and secure it by pulling the plate (3).

Figure 6. Battery replacement



9.2 Replace the Battery in Intrinsically Safe Devices

In combination with ATEX/IECEx versions of the device use approved battery types only, see 3 Safety Instructions, page 8 for information.

Charging parameters: U_m = 5.25 V, I_m = 1.25 A.

Caution

IMPORTANT!

Charging or replacement of an ATEX/IECEx battery is NOT permitted in a hazardous area.

1. The rear cover holding the battery is fastened by a torx screw that requires the special tool included in the delivery; Battery pack opener for ATEX.
2. Remove the battery lid and the battery by removing the torx screw.
3. Insert the new battery into the battery compartment, see Figure 6. *Battery replacement*, page 31.

   Check that the battery is correct.

4. Attach the battery lid with the torx screw.

9.3 Fasten the Belt Clip

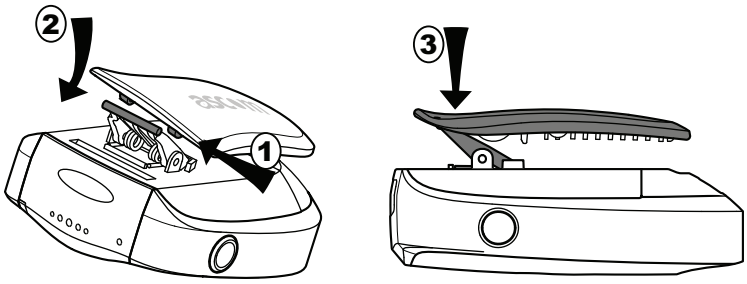
The clip has a special release function to prevent it from breaking when strained. When the clip is released and becomes slack, just snap it back with a hard press.

This is also how a hinge-type clip is exchanged by a swivel-type clip.

If the clip has fallen entirely off its fastening, perform the following:

1. Put the axle in the closed hinge on the clip (1).
2. Push the axle until it snaps into the open hinge in the clip (2).
3. Press firmly on the clip until it snaps into place (3).

Figure 7. How to restore the clip



10 Related Documents

Portable Device Manager (WinPDM), Installation and Operation Manual, TD 92325EN

Ascom a72 Alarm, Data Sheet, TD 93614EN

Ascom a72 Pager, Data Sheet, TD 93613EN

Ascom a72 Protector, Data Sheet, TD 93612EN

Ascom a72, Quick Reference Guide, TD 93615EN

Ascom a72, Configuration Manual, TD 93617EN

Ascom a72, Safety Leaflet, PM000360

Ascom Paging System, System Description, TD 91034EN

CR4 and CR8 Battery Pack Charger, Installation Guide, TD 92724EN

CR4 Battery Pack Charger, Data Sheet, TD 92639EN

PCR Charging Rack, Installation Guide, TD 92356EN

Portable Charging Rack, Data Sheet, TD 92355EN

Single Charger for Paging Portables, Data Sheet, TD 92353GB

11 Document History

Version	Date	Description
B	10 October 2024	Added information on intrinsically safe (ATEX/IECEx) model versions. 3 Safety Instructions, page 8: Corrected Art. No for battery. Editorial corrections.
A	14 March 2024	First released version

Appendix A Editing Parameters

When delivered, the transceiver parameters are pre-programmed. If any settings should be changed, WinPDM can be used to edit the parameters. For instructions on how to edit parameters, see *Ascom a72, Configuration Manual, TD 93617EN*.

If the transceiver is ordered without customer programming, the Call number has to be set before editing other parameters.

Appendix B Upgrading the Firmware

Follow the instructions in *Portable Device Manager (WinPDM), Installation and Operation Manual, TD 92325EN*.

93616EN / 10 October 2024 / Ver. B

ascom