

User Manual

**DE910/DE920/DE920 Ex
Alphanumeric
POCSAG pager**




SWISSPHONE

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Introduction

We would like to congratulate you on your new receiver. In purchasing the new Swissphone DE910/DE920/DE920 Ex you have decided on a device of the highest quality. The Swissphone DE910/DE920/DE920 Ex is a convincing product thanks to the most effective combination of an attractive design, simplest of operation and highest of quality.

These operating instructions provide you with information on how to get the most from your device. Always keep them readily to hand. The Swissphone DE910/DE920/DE920 Ex pager can be configured for the particular application. For this reason, it is possible that functions described in these operating instructions may not be available on your device. We hope you will enjoy reading through these operating instructions and using your Swissphone DE910/DE920/DE920 Ex pager.



Special information on additional and useful functions.



Warning



Important information for DE910/DE920

- Do not operate this product in hazardous atmosphere or explosion risk areas!
- Do not open device or remove labels!

This device complies with Part 15 of the FCC Rules.

Operation is subject to the following two conditions:

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

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



Important information for DE910/DE920/DE920 Ex

- Do not open device or remove labels!



Important information for DE920 Ex

Power source for DE920 Ex

- It's only allowed to use approved dry cells or rechargeable batteries, otherwise the explosion protection will be invalidated!
- Following power sources are approved:
 - DE920 Ex with accumulator: Swissphone rechargeable battery T4 (order number 0539024)
 - DE920 Ex with dry cell: You can order approved dry cells by Swissphone (order number 0330044).
- Only simple standard alkaline dry cells from type Energizer E91 or Duracell MN1500 are allowed (no high-capacity battery like Energizer Ultimate or Duracell Ultra).

Charging the DE920 Ex with rechargeable batteries

- The DE920 Ex rechargeable battery is only to be charged in a non-hazardous atmosphere and/or an area not at risk from explosion. If charging is carried out in hazardous atmosphere or explosion risk areas, the explosion protection can no longer be guaranteed during the charging process!

Replace the DE920 Ex power source

- Change the battery is only allowed in a non-hazardous atmosphere.
- To guarantee the explosion protection, the locking bar from the battery cover has to be closed!
- The explosion protection is only guaranteed using the clip holster or the leather case!

Servicing the DE920 Ex

- The DE920 Ex may only be repaired and serviced by certified service centres; otherwise the explosion protection will be invalidated!

Programming the DE920 Ex

- The DE920 Ex may only be programmed with a full charged battery!



Ambient temperature with the DE920 Ex

With rechargeable battery: $-20\text{ °C} \leq T_u \leq 55\text{ °C}$

With dry cell alkaline: $-20\text{ °C} \leq T_u \leq 50\text{ °C}$

The device complies with the regulations of the R&TTE 99/05/EG («Radio Equipment and Telecommunications Terminal Equipment»).

You will find a copy of the certificate of conformity on our website www.swissphone.com.

Switching on and off

Switching on

Hold down any key for a longer period to switch the receiver on.

Switching on with alarm clock

If the alarm clock is switched on and the receiver is switched off, the Swissphone DE910/DE920/DE920 Ex will be switched on at the alarm time set and the alarm clock will sound.

In order to set the alarm clock, please refer to “Setting the alarm clock”.



Switch lock

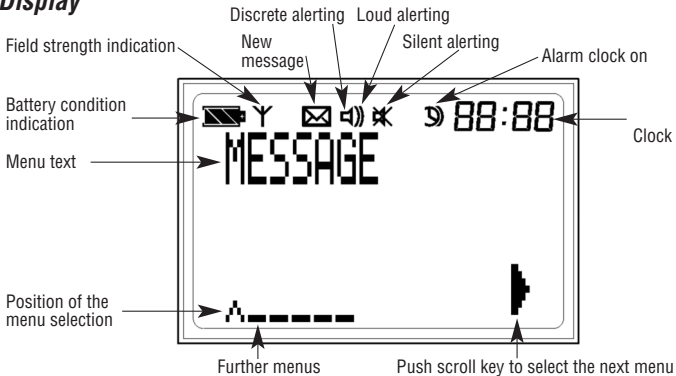
If the switch lock is configured in your receiver, you have to enter a 4 digit PIN code after switching on. Choose the code with the scroll and return key and confirm it with the “Confirmation key”. If the code was entered incorrectly for 10 times, the pager will be locked. To unlock the pager, read/write it with the PSW. Without a correct entry, the receiver runs in an emergency program (alarms can still be received but without text).

Switching off

Starting position: stand-by mode

- Press the scroll key and the menu *Messages* is displayed.
- With the scroll key, select the menu *Switch off*.
- Press the confirmation key. The question, “Are you sure?” appears.
- Press the confirmation key once again to switch off the receiver.

Display

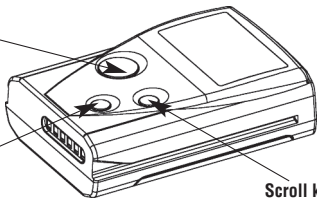


 **Field strength indication** (this feature requires periodic sending of messages)
If the receiver is out of range, the field strength indication in the display is visible.

Keys

Confirmation key

(Read messages, confirm alarm, confirm menu selection)



Return key

(Alternatively, display user and status information, scroll back; holding down the return key will display the selected menus or exit selected message)

Scroll key

(Display main menu, scroll through menus and reports, change settings)

Menu structure

Starting position: stand-by mode

- By pressing the confirmation key, the message selection for “Read messages” is displayed directly.
- By pressing the scroll key, the main menu is displayed.

MESSAGE

- **Read**
 - └ Message selection
- **Delete**
 - └ Message selection
- **Delete all**
- **Protect**
 - └ Message selection

ALERT

- **Loud**
- **Discrete**
- **Silent**
- **Off**

ALARM CLOCK

- **On/Off**
 - └ Selection
- **Set time**
 - └ HH:MM
- **Snoozer**
 - └ Number *time delay

STATUS

- **Status info**
- **User info**

ALERT OPTIONS

- **Profile**
 - └ Selection
- **Alertpattern**
 - └ RIC => pattern
- **Call reminder**
 - └ Selection
- **EA-Monitor**
 - └ Selection
- **DynGo System**
 - └ Information
- **Out of range**
 - └ Selection

COMMUNICATION

(only DE940)

- **Callback**
 - └ Selection
- **Pairing**
- **Coding**
 - └ Selection

SETTINGS

- **Set time**
 - └ HH:MM
- **Set date**
 - └ Day DD.MM.YY
- **Language**
 - └ Selection
- **Light**
 - └ Selection
- **Battery**
 - └ Selection
- **LCD contrast**
 - └ Set
- **ECO mode**
 - └ Selection

SWITCH OFF

- └ Are you sure?

Messages

Individual messages received are alerted, displayed and stored in the memory. Single new (unread) messages are also identified by means of the envelope icon. The individual saved messages are displayed from left to right in the menus “read”, “delete” and “protect” by means of icons, based on the time they were received. When a new message is saved all the messages are moved to the right by one position with the oldest message being moved into the automatic storage tray if the memory is already full. Protected messages are retained in the memory.

Reading new messages

A newly received message appears on the display immediately.

- Alerting is stopped by pressing any key.
- By pressing the scroll key, you can read the messages. Only once you have scrolled right through to the end of the message is the message considered as being read. At the end of the release time the receiver automatically reverts back to stand-by mode.



Call reminder

If your device has been configured with call reminder any unread messages are alerted again after the pre-set time (see chapter *Alarm options*). The call reminder is switched off as soon as the particular message(s) is (are) read.

Reading messages

Starting position: stand-by mode

- Press the confirmation key to display messages. The cursor is then on the most recent message.



- Press the scroll key to select the next message.
- Press the confirmation key to read the selected message. The first 3 lines of the message are displayed.
- Press the scroll key to read the whole message.



Reading messages with the confirmation key

You also have the possibility of directly scrolling through and reading all messages directly with the confirmation key.



Simple operation

If your receiver is configured for simple operation, then you get directly into the most recent message by using the confirmation key. As soon as you have read it, the next unread message is displayed. In order to reach the main menu, press the scroll key and return key simultaneously for at least 2 seconds.



Key lock

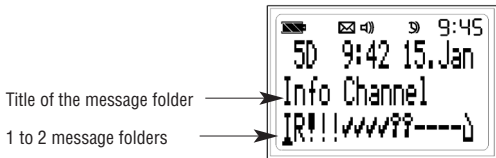
If the key lock is configured in your receiver, all buttons are locked and you can't do any settings. To unlock the function, press the scroll key and return key simultaneously. In stand-by mode the key lock will automatically switch on after 10 seconds without any keypress. By an alert case, you can read the alert with the confirmation key without unlock the key lock.



Illuminated display

To switch on display illumination manually, press the confirmation key for 1 second. To switch the display off again press the confirmation key again for 1 second. The display will be switched off automatically at the latest when the receiver reverts back to stand-by mode.

Message folder (only DE920/DE920 Ex)



The DE920/DE920 Ex can show a maximum of two message folders, depending on how it has been programmed. When selected the title of the message folder is displayed in the menu list. Press the confirmation key in order to display the messages in the messages folder. The messages can then be read with the help of the scroll key.



New (unread) messages in the message folders are not highlighted by means of an envelope icon.

Deleting individual messages

Starting position: stand-by mode

- Press the scroll key and the menu *Messages* is displayed.
- Press the confirmation key.
- With the scroll key, select the *Delete* menu and press the confirmation key.
- With the scroll key, select the message, which is to be deleted.
- Press the confirmation key to delete the message.
- Press the confirmation key again to delete all messages or the return key to abort the process.

Deleting all messages

Starting point: stand-by mode

- Press the scroll key and the menu *Messages* is displayed.
- Press the confirmation key.
- With the scroll key, select the menu *Delete all* to delete all messages.
- Press the confirmation key. The question appears, *Are you sure?*
- Press the confirmation key again to delete all messages or the return key to abort the process.

Protecting messages

Protected messages are not overwritten by more recent messages and therefore remain until they are deleted.

Starting position: stand-by mode

- Press the scroll key and the menu *Messages* is displayed.
- Press the confirmation key.
- With the scroll key, select the menu *Protect*.
- Press the confirmation key.
- With the scroll key, select the message required.
- Press the confirmation key to protect the message.

Alerting

Alarm settings differentiate essentially between messages with and without priority. This depends on how the particular receiver address (RIC) is configured.

In the alarm options menu the DE910/DE920/DE920 Ex can be configured to “loud” (loud alerting with vibrator), “discrete” (mini beep with vibrator), or “silent” (vibrator only) and “off” (visual display only).

Starting position: stand-by mode











- Press the scroll key and the menu *Messages* is displayed.
- With the scroll key, select the menu *Alert options*.
- Press the confirmation key.
- With the help of the scroll key, select the required alarm option.
- Press the confirmation key to accept the alarm option selected.



Messages with priority


With loud alerting the alarm is twice as long for messages with priority than for normal messages. With all other types of alerting messages with priority are firstly signalled by means of a vibrator and then loudly with a vibrator.

The following table illustrates the type of alerting for each configuration.

	Symbol	Alerting	Alerting of messages with priority
Loud		 Standard signalling	 Doubled standard signalling
Discrete		 10 seconds vibration then mini beep	 10 seconds vibration then doubled standard signalling
Silent		 10 seconds vibration	 10 seconds vibration then doubled standard signalling
Off			 10 seconds vibration then doubled standard signalling

Acoustical alerting 

Vibration 

 This device should not be brought near ear proximity. The very loud alarm tone could (permanently) damage your hearing.

Alarm clock

Starting position: stand-by mode

- Press the scroll key and the menu *Messages* is displayed.
- With the scroll key, select the menu *Alarm clock*.
- Press the confirmation key.

Switching the alarm clock on and off

Starting position: *Alarm clock* menu

- Press the confirmation key to select the menu *On/Off*.
- Select “On” or “Off” with the scroll key.
- Accept your selection with the confirmation key.



Quitting alarm clock

The alarm tone is switched off as soon as the any key is pressed. The alarm clock icon will blink as long as the repeat alarm is active. After the alarm repeat period the alarm tone starts again. If the confirmation key is pressed for at least 2 seconds the alarm tone is switched off for the whole day. The alarm, however, remains switched on and will sound, once again, the next day.

Setting the alarm clock

Starting position: menu *Alarm clock*

- Press the confirmation key to select the menu *Set time*.
- Push the confirmation key.
- With the scroll key set the hours and minutes and confirm respectively.

Alarm repeat

Starting position: menu *Alarm clock*

- With the scroll key, select the menu *Snoozer*.
- Press the confirmation key.
- With the scroll key, select the number of repeats and the time interval in minutes and confirm respectively.



Switching-on with alarm clock

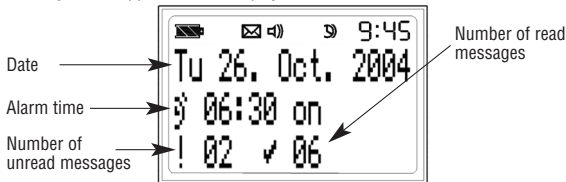
If the alarm clock is switched on and the receiver is switched off, the DE910/DE920/DE920 Ex will be switched on at the alarm time set and the alarm clock will sound.

Status display

Starting position: stand-by mode

- Press the scroll key and the menu *Messages* is displayed.
- With the scroll key, select the menu *Status*.
- Press the confirmation key.

The following screen appears on the display:



- If the scroll key is pressed, the Battery condition indication is displayed, otherwise the DE910/DE920/DE920 Ex receiver goes into the stand-by mode after the release time.



Direct display of the status screen and of the Battery condition indication:

If the receiver is in the stand-by mode, then by holding down the return key the status information, the Battery condition indication and the user information are alternately displayed for 1 second.

Alert options

Starting position: stand-by mode

- Press the scroll key and the menu *Messages* is displayed.
- With the scroll key, select the menu *Alert options*.
- Press the confirmation key.

User profiles

Starting position: menu *Alert options*

- Press the confirmation key to select the menu *Profile*.
- Select a user profile with the scroll key.
- Accept your selection with the confirmation key.
- With the scroll key, switch advanced profile on or off.
- Press the confirmation key.

Alarm tones

Starting position: menu *Alert options*

- Press the confirmation key to select the menu *Alert pattern*.
- With the scroll key, select a RIC with sub-address.
- Press the confirmation key.
- With the scroll key, select a melody. The melody is played during the selection.
- Press the confirmation key.
- Set a further alarm tone or press return to exit the menu *Alert pattern*.

Call reminder

Starting position: menu *Alert options*

- Press the scroll key to select the menu *Call reminder*.
- Press the confirmation key.
- With the scroll key select between “loud” and “discrete”.
- Press the confirm key.

EA monitor (express alerting)

This function is only activated if your system supports the menu *EA monitor*.

Starting position: menu *Alert options*

- With the scroll key, select the menu *EA Monitor*.
- Press the confirmation key.
- With the scroll key, select between “off”, “discrete” or “loud”.
- Press the confirmation key.

DynGo system

This function is only activated if your device supports DynGo.

Starting position: menu *Alert options*

- With the scroll key, select the menu *DynGo system*.
- Press the confirmation key and the DynGo program is displayed.

Acoustic field strength alarm

Starting position: menu *Alert options*

- Press the scroll key to select the menu *Out of range*.
- Press the confirmation key.
- With the scroll key, switch the field strength alarm on or off.
- Press the confirm key.

Settings

Starting position: stand-by mode

- Press the scroll key and the menu *Messages* is displayed.
- With the scroll key, select the menu *Settings*.
- Press the confirmation key.

Setting the clock

Starting position: menu *Settings*

- Press the confirmation key to select the menu *Set time*.
- With the scroll key set the hours and minutes and confirm respectively.

Setting the date

Starting position: menu *Settings*

- With the scroll key, select the menu *Set days*.
- Press the confirmation key.
- With the scroll key select the year, month and day of the week and confirm respectively.

Language

Starting position: menu *Settings*

- With the scroll key, select the menu *Language*.
- Press the confirmation key.
- With the scroll key, select one of two pre-set languages.
- Press the confirmation key.

Light

If active, the background illumination is switched on with each operation.

Starting point: menu *Settings*

- With the scroll key, select the menu *Light*.
- Press the confirmation key.
- With the scroll key activate or de-activate settings.
- Press the confirmation key.

Selecting the type of battery

Starting position: menu *Settings*

- With the scroll key, select the menu *Battery*.
- Press the confirmation key.
- With the scroll key, select *Alcaline* or *NiMH*.
- Press the confirmation key.

Alcaline: Dry battery

NiMH: Nickel-metal hydride battery

NiMH plus: Low self-discharge NiMH battery

Please ensure that the installed type of rechargeable battery corresponds to the settings in the device. This ensures optimal indication of the battery charge level.

Battery level indication



80 % – 100 %



33 % – 80 %



13 % – 33 %



0 % – 13 %

When it is switched on, the battery icon is always visible on the display and indicates the amount of energy still available. Period of operation can be up to 1300 hours, depending on the power supply, network configuration and the type of operation programmed.

Should the energy source be virtually used up, the empty battery icon starts to blink and a regular reminder tone sounds. There is still an operating time of at least 24 hours available. By pressing the confirmation key, the battery alarm is switched off, the empty battery icon, however, continues to blink.



If the ECO mode is switched on, the battery icon isn't visible in the stand-by mode.

LCD contrast

Starting position: menu *Settings*

- With the scroll key, select the menu *LCD contrast*.
- Press the confirmation key.
- With the scroll key, set the LCD contrast.
- Press the confirmation key.

ECO mode

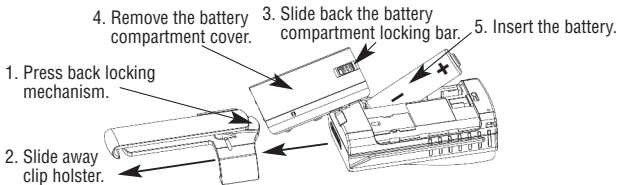
If ECO mode is switched on the display will be completely switched off in stand-by mode. No status icons are displayed. The life of the battery can be considerably increased in this way.

Starting position: menu *Settings*

- With the scroll key, select the menu *ECO mode*.
- Press the confirmation key.
- With the scroll key, switch ECO on or off.
- Press the confirmation key.

Changing the power source

Remove the clip holster and open the cover on the back of the receiver. Insert the power source supplied into the compartment and in doing so pay ensure that the polarity is correct.



The following power sources of the size AA, or, L6, or AM3 (Mignon) can be used:

- Alkaline: leak-proof alkaline-dry batteries



Alkaline batteries should not be charged or recharged. Danger of explosion!

- Rechargeable batteries: Nickel metal hydride

For safety reasons, to re-charge use a charger from the original Swissphone range of accessories.



Warning

- Do not dispose of batteries and rechargeable batteries in fire. Risk of explosion!
- Keep batteries out of reach of children under three years.

The DE910/DE920/DE920 Ex receiver is automatically switched on when the battery is inserted. Afterwards choose the type of the battery (dry cell or rechargeable battery). A test is done whilst all loads in the device are activated temporarily. The device then is ready to receive messages.



Attention:

For optimal indication of the battery or rechargeable battery levels, the type of rechargeable battery installed has to be set using the operation in the device (see chapter: *Selecting the type of rechargeable battery*).

If you use a rechargeable battery with another capacity, change it with the programming tool.



Important information for DE920 Ex

Power source for DE920 Ex

- It's only allowed to use approved dry cells or rechargeable batteries, otherwise the explosion protection will be invalidated!
- Following power sources are approved:
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Charging the DE920 Ex with rechargeable batteries

- The DE920 Ex rechargeable battery is only to be charged in a non-hazardous atmosphere and/or an area not at risk from explosion. If charging is carried out in hazardous atmosphere or explosion risk areas, the explosion protection can no longer be guaranteed during the charging process!

Replace the DE920 Ex power source

- Change the battery is only allowed in a non-hazardous atmosphere.
- To guarantee the explosion protection, the locking bar from the battery cover has to be closed!
- The explosion protection is only guaranteed using the clip holster or the leather case!



Swissphone Telecom AG, Fälmisstrasse 21, CH-8833 Samstagern, Switzerland

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