

## User Manual

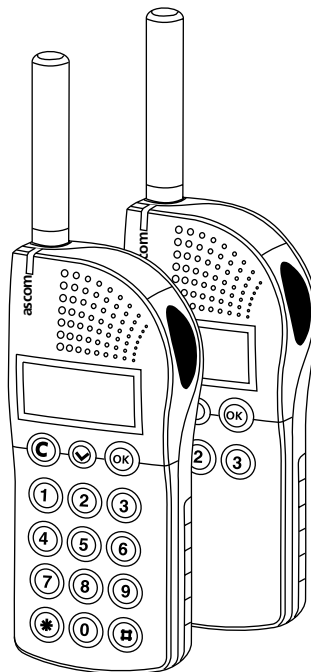
### Pocket Transceiver U922

*This document provides a description of the pocket transceiver U922 and its functionality. The U922 is included in the teleCOURIER 900 radio paging system and the telePROTECT 900 alarm system. This User Manual describes the U922 in the default programmed version. Additional functions and factory settings are also included, providing a full description of the functionality. Your system may not have all functions described in this document. For information about your system, please contact your system administrator.*

*The following documents are recommended as a supplement:*

- *System Description teleCOURIER 900 Paging System, document number TD 91034GB.*
- *System Description Personal Security System telePROTECT 900, document number TD 90677GB*

*We also recommend reading the User Guide for the U922.*



*U922 Transceiver*

## Introduction

U922 comes as either a speech transceiver, for use in the teleCOURIER 900 radio paging system, or an alarm transceiver, for use in the telePROTECT 900 alarm system.

Transmission of speech and alarm is made in the UHF 425-475 or the VHF 140-175 MHz range. Paging and speech is received in the UHF 425-475 MHz range. The speech transceiver can transmit and receive voice as well as text messages, allowing both mobile-to-central and mobile-to-mobile calls. The alarm transceiver can, in addition to the functions of the speech transceivers, transmit different alarms. It can also receive an acknowledgement paging confirming that the alarm has been received.

The alarm transceiver can be equipped with a location receiver that stores the location code transmitted by fixed LF or IR Locators. When an alarm is sent, the location codes are also sent by the transceiver to the alarm central. Another security function is that the alarm transceiver can be supervised continuously.

All transceivers, except those with a LF receiver, vibrator and one-way speech transceivers without acknowledge are available in intrinsically safe versions that comply with classification EEx ib IIC T4. The unit is water resistant according to IP64.

### U922 Versions

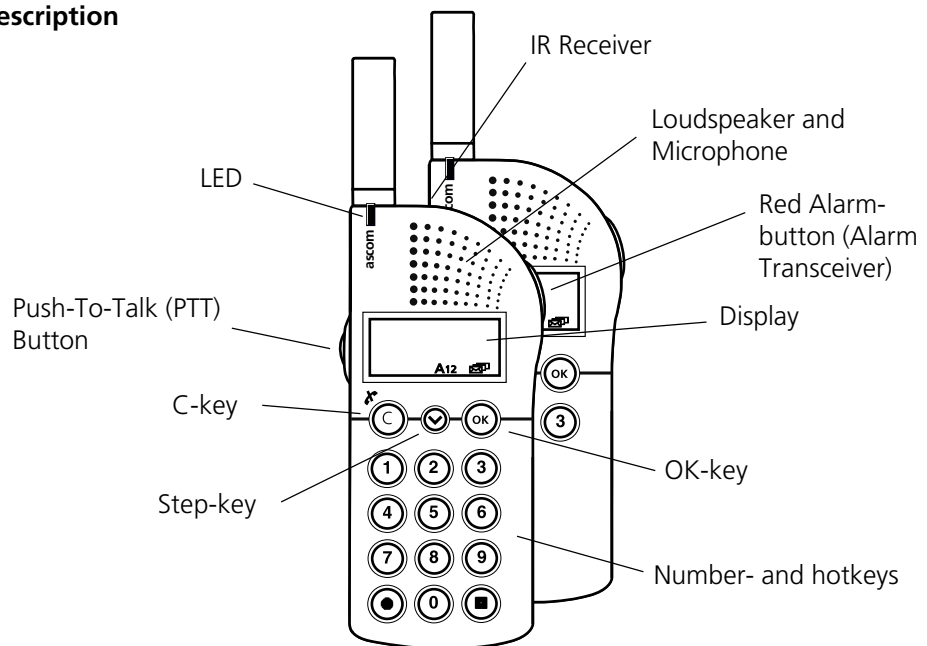
The U922 transceiver comes in the following basic versions:

- Alarm transceiver with no-speech and 6-button keypad.
- Speech/Alarm transceiver with one-way speech and 6-button keypad.
- Speech/Alarm transceiver with two-way speech and full keypad.











Functions	Speech	Alarm
Characters per message	120	120
Stored messages	10	10
Characters in memory	480	480
"Group numbers"	5	5
Absent indication	Yes	Yes
Time Stamp	Yes	Yes
Vibrator	Option	Option
Keypad	6/15	6/15
Acknowledge	Option	Yes
<i>EX-classification</i>	<i>Option</i>	<i>Option</i>
<i>Push button alarm</i>	—	Yes
<i>Pull-cord alarm</i>	—	Option
<i>Man-down alarm</i>	—	Option
<i>No-movement alarm</i>	—	Option
<i>IR-receiver</i>	—	Option
<i>LF-receiver</i>	—	Option

## Description

### Transceiver Description



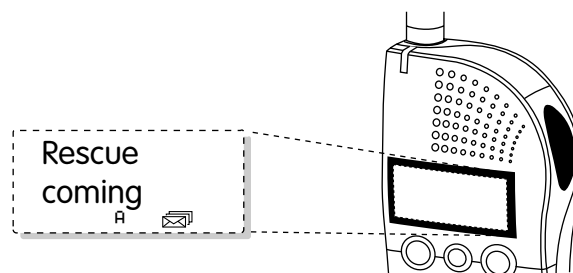
### Symbols in the Display:

	New message (the symbol flashes)
	More than one message stored
	The message is longer than two lines
	Speech call
	Muted beep signal
	Low battery warning. Charge as soon as possible
	Low battery, speech transmission turned off. Charge immediately
	Time stamp, see the chapter Display menu functions Function and RTC, Time stamp
<b>1 2 3</b>	Hot-key function activated
<b>A</b>	Manual acknowledgement request
	Info-page message
<b>+</b>	The message is addressed to one of the group numbers
<b>/</b>	The message is diverted from other call number
	Error indication, contact system administrator

### Display

U922 has an alphanumeric display with 2x12 characters. Longer messages automatically scroll on the display, two lines at a time, up to 120 characters. The user can start the scrolling manually by pressing the OK button once. The display is illuminated. The text is clear and easy to read and consists of both lower and upper case characters. The system administrator can change all preprogrammed texts.

Normally the display shows the identity and the text "Menu". The transceiver is programmed with an identity unique within the system. The identity can be your call number, name or other. Below this text, the icons appear. The icons keep track of activated functions and notify the user, for example, that a new message is received. If an error occurs, the Error Indication icon appears.



*Example of paging with acknowledgement message "A"*

Four different character sets can be used in the transceiver:

- 910/910T
- Full Roman
- Roman+Cyrillic+Greek
- Roman+Arabic+Hebrew.

### C-key

The C-key is used to return to previous menu level, to erase paging messages and to end speech calls.

### Step-key

The Step-key is used to scroll between messages and to step between the menu options.

### OK-key

The Blue OK-key is used to mute and acknowledge pagers and enter the main menu to change the transceiver's settings. It is also used when storing or recalling a call number.

If the function of the OK button is set to "Send", it is possible to send commands to the system to perform an activity, for example to open a door. This is done by sending special codes. The codes are supplied by the system administrator. Enter the preprogrammed code. When "Send" is displayed, press OK.

### Number- and Hot-keys

The keys numbered 1-6 are pre-programmable Hot-keys. They are used to activate various alarm functions and to enter paging numbers. See also the section *Pocket Unit Programmer*. Keys numbered 7-9 are only used to enter paging numbers.

### Red Alarm-button

The alarm transceivers are equipped with a red alarm-button. It is used to transmit alarms and to test the alarm transceiver and the system.

### Red light-emitting diode

Indicates that an alarm/message is sent, and a message and/or new location code is received. It also shows the charging status when the unit is placed in T962.

### Clip

922 is equipped with a clip so that the unit can be fastened to a pocket or another piece of clothing.

## Basic Functions

Press OK to enter the menu and to select menu options. Press the C-key once to return to the previous menu level. Press and hold the C-key to return to the main display. Press the Step-key to step between the menu options.

### Turning the Transceiver ON

The transceiver is turned on by pressing the OK button. It automatically starts in the (NORMAL) initial start-up mode and the pocket unit identity appears in the display.

Michael 344 0 Msgs. Menu
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### Turning the Transceiver OFF

Press OK to enter the menu. Press the Step-key until "OFF?" is displayed, then press OK.

NOTE: Turning off the unit will erase all messages, unless the Memo function (option) is activated by the system administrator.

NOTE: The unit consume some current when it is in OFF mode. The battery can thereby be discharged.

### Receiving Text Messages

When U922 receives a paging this is indicated with a beep signal, flashing LED and vibrator (optional). The new message icon  flashes in the display until the message is accepted. Press OK to stop the beep signal. If the "A" icon is displayed you are required to acknowledge within a certain period of time. An acknowledgement beep sounds during that time period. If the message is not acknowledged, pre-defined actions set in the system are initiated. Press OK to accept/acknowledge the message. An acknowledged message is then sent.

The symbol "◆" indicates that the message is longer than 24 characters. A message can consist of up to 120 characters, i.e. 10 lines (max 12 characters per line). The transceiver can store up to 10 text messages (max. 480 characters). Messages longer than two lines are scrolled two lines at a time. When the message is accepted, the display will show the next new message. The New message icon will continue to flash until all messages are accepted.

If all 10 memory positions are occupied when a new paging is received, the oldest acknowledged message is erased. If all 10 messages are unacknowledged the oldest unacknowledged message is erased. Depending on the length of the new message several messages might be erased. The messages are also erased when batteries are replaced.

**Note:** To distinguish between different types of pagings the transceiver can be programmed to flash and beep in different ways, for example with different beep tones, and with different beep and LED sequences. It is also possible to program the tone messages. This is done in the application *Pocket Unit Programmer* which is included in the *Win900 Base Kit* software package. See also the section *Pocket Unit Programmer* and the document *Win900 User Guide*, TD 90838GB.

### Viewing and Stepping through Messages

Press the Step-key to view and step between the messages.

### Deleting Messages

Display the message to be deleted. Press and hold the C-key until the message is erased. "\*\*\*\*\*" is shown briefly when a message is erased.

### Receiving Speech Calls

A flashing LED, beep signal and the  icon indicates incoming speech call. Press the PTT-button to speak, release the PTT-button to listen. Press and hold the C-key to end.

### Storing and Recalling a call number

If the function of the OK button is set to "Store", it is possible to store a call number for future use. See the section *Pocket Unit Programmer*. Enter the call number using the number-keys. Press the Step-key until "Store" is displayed and then press OK.

The number can be recalled by pressing a number key and then pressing the Step-key until "Recall" is displayed. Press OK to recall the call number. Press the PTT-button to call.

### Sending Speech Calls


Enter the call number and press the PTT-button. If "Busy" is displayed, press the PTT-button twice to redial.

A hot-key can be programmed to send a speech call, a so called speed call. The programming is done in the application *Pocket Unit Programmer*. The speech call is initiated by pressing the hot-key until the call number is displayed and sent.



### Changing Speaker Volume during Speech Call

Press the Step-key to toggle between high/low volume.

### Switching the Audible Signal Off

Press OK to enter the menu. Press the Step-key until "Tone?" is displayed. Press OK to switch between On/Off. A flashing  icon indicates that the signal is off.


### Charging the Battery

Beep signals and the  icon indicate a low battery warning. The unit should then be charged as soon as possible. Beep signals and the  icon indicate low battery. The unit should then be charged immediately. At low battery, it is not possible to start a speech call - only to receive speech. However, the alarm functions are not affected.

When placed in a desktop charger, the LED on the U922 flashes until the battery is fully charged. A red LED on the charger indicates a fully charged battery.

In a charging rack, the LED on the U922 flashes until the battery is fully charged. A steady LED on the U922 indicates a fully charged battery. Keep the unit in the charger when not in use.

### Changing Beep Volume

Press OK to enter the main menu. Press the Step-key until "Set?" is displayed and then press OK until "Vol" appears. Press and hold OK until the required signal is reached. The "  " symbol indicates a gradually increasing volume. "Vol 0 + Vib" indicates vibrator without beep signal. "Vol 1 + Vib" indicates vibrator and beep volume level one.

### Activating Time Stamp

At the end of each message, the time stamp shows the time when the message was received, . Press OK to enter the main menu, then press the Step-key until "Set" is displayed. Press OK and step to "Time Stamp". Press OK to toggle between On/Off.

### Activating Reminder Beep

The reminder beep sounds every five minutes until the message is accepted. Press OK to enter the main menu, then press the Step-key until "Set?" is displayed. Press OK and step until "Remind Beep" is displayed. Press OK to toggle between On/Off.

### Enabling Group Number

To enable/disable pagings to group numbers, press OK to enter the main menu. Press the Step-key until "Set?" is displayed and press OK. Press the Step-key to display the group numbers, the group numbers are displayed after your call number. Press OK to toggle between On/Off. On indicates that the number is enabled.

### Activating Manual Absence

Press and hold the preprogrammed key until "Absence" is displayed. Press OK to switch between On/Off.

### Activating Hot-key

Press and hold the preprogrammed key until the call number appears and is transmitted.

### Special Codes

If the function of the OK button is set to "Send", it is possible to send commands to the system to perform an activity, for example to open a door. This is done by sending special codes. The codes are supplied by the system administrator. Enter the preprogrammed code. When "Send" is displayed, press OK.

## Alarm Functions

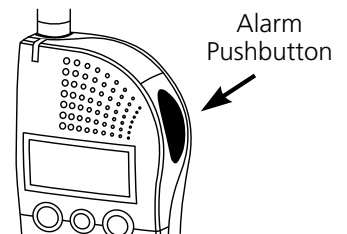
Alarms can be generated manually and automatically from U922 alarm transceivers. At alarm activation, a code is sent to the alarm central with information on the transceiver identity, alarm type and, if available, location information. An error alarm is presented if the radio connection is interrupted or if the transceiver ceases to function. An alarm can also generate pagings to other mobile transceivers/receivers in the system. For example, the transceiver can be part of a pre-defined group consisting of a number of selected work groups equipped with U922 units.

The code format of the telePROTECT 900 personal security system is compatible with the teleCOURIER 900 paging system which means that functions and units from the two systems can be integrated with each other.

### Push-button Alarm

Two or more short presses on the red alarm-button activate an alarm that is sent to the central equipment. When the alarm is transmitted, the red LED on the top of the transmitter flashes and the text "ALARM" appears in the display. The alarm is transmitted silently, unless the Acoustic Location Signal (ALS) is activated.

If a system is programmed for *technical alarm*, the text "ALARM" will remain until the central equipment has received the alarm and an automatic acknowledgement is sent to the pocket unit. If no acknowledgement occurs, the transceiver will repeat the alarm transmission automatically until an acknowledgment is received. This applies to all alarm types.



### Test/Assistance Alarm

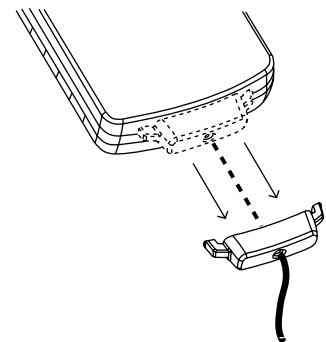
A press of longer than one second activates a test alarm that does not lead to any alarm measures. If the test alarm is not presented by the central equipment or if an error is indicated, another test alarm must be sent. If the test alarm is still not presented or the error indication remains, the transmitter must be sent to the supplier for service. To check the alarm transmitter and the system, a test alarm should be activated every day. The test alarm can also be reprogrammed and used as assistance alarm.

### Pull-Cord Alarm (option)

A pull cord alarm is activated by snatching away a catch that is mounted at the bottom of the transceiver. The catch is fastened with a cord to a clip. The clip can be fastened to a belt or pocket or other article of clothing. If someone tries to snatch the transceiver away from the user the catch releases and the alarm is activated.

NOTE: Make sure that the clip of the Pull-cord is firmly attached, for instance at your belt.

NOTE: To remove the Pull-cord without triggering an alarm, the Pull-cord alarm must be turned off.





### Man-Down Alarm (option)

The U922 can be equipped with a tilt sensor. If the user falls down or if the alarm transmitter is tilted more than 60°, a warning tone is heard after 7 seconds. The alarm can be interrupted by pressing the OK-button or by moving the transceiver to an upright position again. If the alarm is not interrupted, a two-tone localisation signal is generated confirming that the alarm has been sent. When the warning signal is heard, the alarm can be delayed for ten minutes by pressing the OK-button.

**Note:** *The transceiver can either have a man-down alarm option or a no-movement alarm option, not both.*

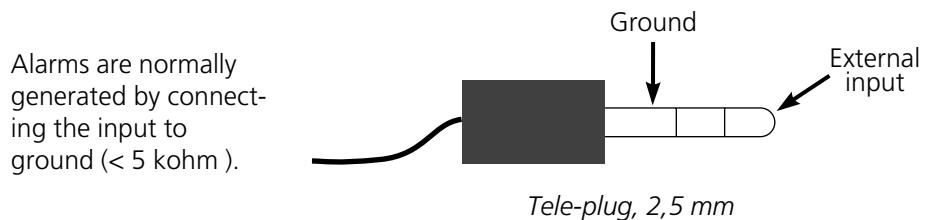
### No-Movement Alarm (option)

The alarm transceiver can be equipped with a sensor for no-movement alarms. The no-movement alarm is activated if the transceiver has not been moved within a preset time period. Before the alarm is transmitted, a warning signal continuously sounds. If the unit has not moved during this time, the warning signal sounds and an alarm is transmitted. To prevent the alarm transmission, move the unit or press the OK-button, while the warning signal is heard.

**Note:** *The transceiver can either have a man-down alarm option or a no-movement alarm option, not both.*

### External Alarm (option)

The U922 can be ordered with an external alarm input. It is located at the bottom of the cover on the battery pack. The alarm can be programmed for an opening or closing function. The input is intended for connection to any kind of external alarm device, for example a gas or smoke detector.



### Activating and Deactivating Different Alarm Functions

To activate and deactivate the different alarms, press and hold one of the three hot-keys 1-2-3 for one second or more. Provided that the alarm options are available, the buttons are default programmed as follows:

- Button 1: Man-down alarm or No-movement alarm
- Button 2: Pull-cord alarm
- Button 3: unprogrammed

However, it is possible to select other combinations to activate the different alarm types when programming the pocket unit. The hot-keys can also be reserved for other functions. For example, they can be used to activate different system functions.

#### *Man-down/No-movement alarm*

Press and hold the hot-key number 1 to set the Man-down alarm or No-movement alarm. Press OK to toggle between On/Off. When the alarm function is switched on, the hot-key number is displayed in the display window.

#### *Pull-cord alarm*

Attach the Pull-cord to the alarm transceiver. Press and hold the hot-key number 2 to activate the alarm. Press OK to toggle between On/Off. When the alarm function is switched on, the hot-key number is displayed in the display window. Make sure that the clip of the Pull-cord is safely attached. If the Pull-cord is pulled off, a silent alarm will be transmitted.

NOTE: To remove the Pull-cord without triggering an alarm, the Pull-cord alarm must be switched off.

### **Acknowledge**

An Acknowledge is a response either to or from the transceiver. It indicates that the message or alarm has been received and processed. When a transceiver has sent an alarm, it can receive an acknowledgement from the fixed equipment confirming that the alarm has been acknowledged by someone. This is called Technical Acknowledge. The response is sent as a paging. The paging is generated manually or automatically via an alarm module or an alarm computer and usually includes a text message.

A paging with a request for manual acknowledgement is indicated by the symbol "A" which appears at the bottom of the display. The symbol remains until the OK button is pressed. When it is pressed, an acknowledge response is sent to the fixed equipment.

### **Supervision**

The telePROTECT 900 software application PCPRO has an automatic supervision function to check the transceivers. A paging is transmitted at regular intervals. The paging contains a request for automatic acknowledgement from the transceivers, but it is not presented for the user. If a transceiver does not respond to the paging within a preset time, this will be presented as a system alarm. If the transceiver is equipped with a location receiver, its latest known location can be presented as well.

In addition to the supervision function, the system can be programmed to perform a self check as follows: The user is requested to send a test alarm when the transceiver is taken out of the charging rack. If he does not, he will receive a second request from the system as a paging. If the request does not reach the transceiver, or the user still does not activate a test alarm, this will be registered as a system error by PCPRO.

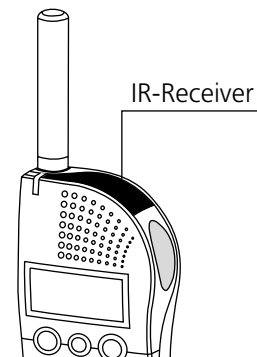
## Location Function

### IR and LF location

An alarm transceiver equipped with a location code receiver continuously receives location codes that are sent out via IR light or LF magnetic field from fixed locators in the system. The location codes are stored in the alarm transceiver and sent with the alarm when it is activated. On the alarm computer, the transceiver's two latest locations and direction of movement can be seen. The direction of movement and speed can be determined by using the unit's last two location codes and the time elapsed between them.

The pocket unit can also be used to test the fixed locators. The unit is then set to indicate with beep and LED signals that a location code has been received. See also the section *Pocket Unit Programmer*.

NOTE: The IR-receiver is situated underneath the coloured transparent plastic top. A transceiver with an IR-receiver must always be carried visibly, never covered!



### Manual Location

If the function of the OK button is set to "Store", it is possible to store a manual location. Enter the manual location code with the number keys. Press the Step-key until "Store" is displayed and then press OK. The number can be recalled/displayed by pressing a number key and then press the Step-key until "Recall" is displayed. Press OK to recall the code.

The manual location code will be stored and sent with the alarm until a location code that does not exist is entered, even if new IR- or LF location codes are received.

### Special Location

If the fixed locators are set to send a Special Location code, the pocket unit can send an alarm directly after it has received the code. See also the section *Pocket Unit Programmer*.

## Special Functions

### Memo Function

The memo function is a storage function for text messages. All messages received are stored in the pocket unit's memory. If the memo function is activated, the pagings in the memory will be kept when the pocket unit is turned off. The messages are erased manually or automatically according to the FIFO principle (First In First Out). However, if the battery is removed or completely discharged, the stored messages will be erased.

### Watchdog Function

The transceiver has a so-called watchdog function. It is an internal hardware and software function check that is executed at fixed time intervals.

### INFO Page Message

An INFO-page contains information that is updated frequently, such as measurements in a production process, exchange rates, stock market notations, etc. An INFO-page can, for example, be sent from a PC via a serial interface. U922 can receive one info-page per call number i.e. altogether six. When an info-page is displayed the **I** symbol appears. By selecting the beep code, it is possible to choose if the transceiver shall beep or not when an info message is received.

### Call-Number Presentation

If a paging has been received on one of the five extra call numbers, U922 can show which number received the paging. The call number is shown at the end of the message preceded by the symbol +. The symbol and number information are added by the pocket unit.



*Example of Call-Number Presentation*

### Call Diversion

A paging can be directed to another pocket unit via the central unit of the system. This is indicated in the display by showing the call number of the pocket unit that the call was directed from at the end of the message, preceded by the symbol /. The symbol and number information are added by the system.



*Example of Call diversion*

### Out of Range

This is a warning function that checks that the pocket unit is within the coverage area. A special test paging is sent from the central unit at regular intervals. If the test paging has not been received by the pocket unit within a preset time, the **!** symbol appears in the window. The function is selected in *Pocket Unit Programmer* and the time interval can be set from 5 to 75 minutes.

### Error Indication

If the **!** symbol appears in the window, the transceiver may be out of range. If the symbol does not disappear when the transceiver is brought back into the coverage area, the transceiver must be sent to the dealer for service.

## Operation and Maintenance

### Operation Modes

The transceiver operates in one of six modes. The user moves between the different menu modes by using the STEP and OK buttons.


- **OFF**  
In this mode the transceiver is turned off and all functions are deactivated except for the built-in clock.
- **NORMAL**  
This is the normal operation mode where all functions can be active. The transceiver can transmit alarms and receive, indicate, and store pagings. The transceiver always enters this mode when it is turned on.
- **CHARGE**  
The transceiver automatically enters this operation mode when it is placed in a charging rack. Depending on how the function parameters are set in the transceiver, it either can receive pagings or be turned off.
- **CHANGE**  
Here the user can change all changeable settings.
- **TEST (not included in default programming)**  
Used only to test the transceiver's functions in production and service. All functions are turned off except for those that are specifically being tested. Test mode is entered by a long press (>2 sec) on the STEP button while the pocket unit is in (NORMAL) initial start-up, i.e. while the transceiver's identity appears in the display.
- **PROGRAMMING**  
The transceiver is set into this mode before parameter programming via radio. In this mode, no other functions are active. After a preset time the transceiver automatically leaves the PROGRAMMING mode and enters NORMAL mode.

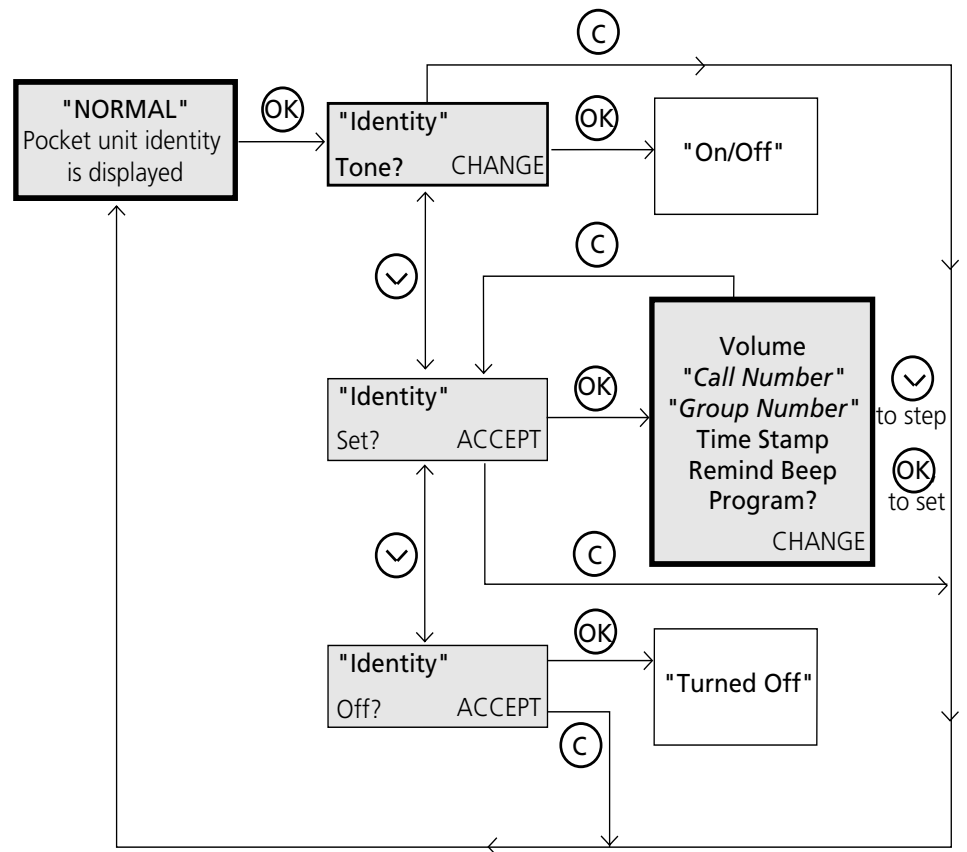
### Display Menu

The display menu is your aid when you set your personal parameters. It is possible to change a number of settings in the pocket unit. To change a user parameter, enter the main menu by pressing the OK button. Each selection possibility is listed by the parameter name, normally followed by the text "CHANGE" at the lower right portion of the display.

The OK button is also used to change operation mode from "CHANGE" to "PROGRAM" or "OFF". Each selection possibility is listed by the operation mode name followed by the text "ACCEPT" at the lower right portion of the display.

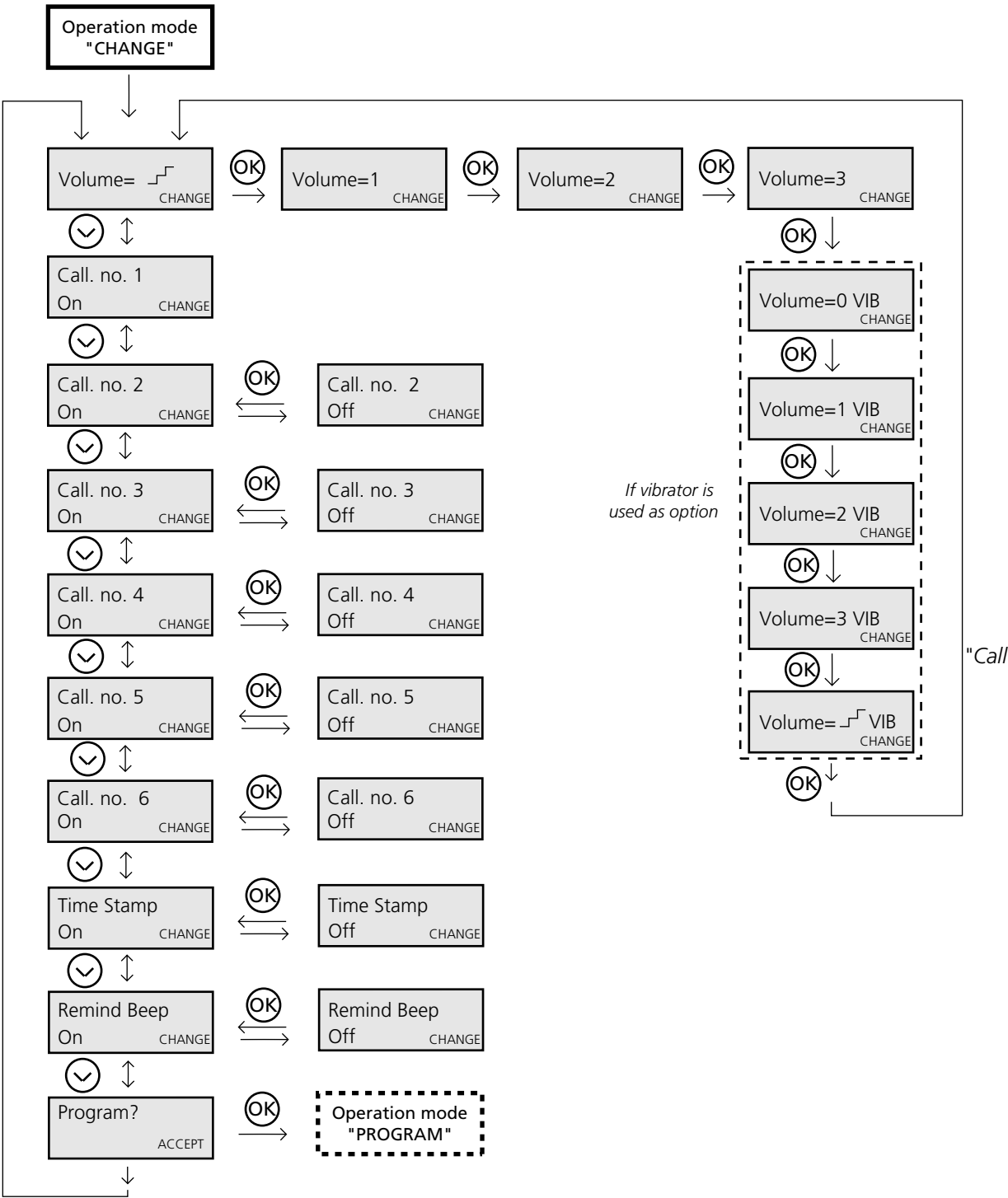
The following flow charts illustrate how the user moves between the different menu options:

**Step-key,**  Press and hold to step upwards in the menus  
Short press to step downwards in the menus



NOTE: Depending on your system, your receiver may not have all functions described.

NOTE: All texts can be changed.



## Display Menu Functions

### Volume

This function changes the beep signal volume. It is possible to choose between three volume levels, a gradually increasing volume option and a vibrator (optional). The system administrator can change the melody of the beep signal in the Pocket Unit programmer.

### "Call number"

This is the individual call number set by the system administrator (Call. no. 1 in the display).

### "Group number"

In addition to the individual call number the transceiver can receive pagers on up to five additional call numbers. You can be a part of a group paging or have messages diverted to you. It is possible to enable/disable each of these five numbers (Call. no. 2-6 in the display).

### Time Stamp

The time when the message was received is shown at the end of each message. This function is indicated by the Time stamp symbol. The Time stamp is not displayed if the message is older than 24 hours or is longer than 108 characters. The Real Time Clock (RTC) in the paging system provides the transceiver with the time.

### Remind Beep

The Remind beep function gives a beep signal on regular intervals until you have accepted the message.

### Program

The transceiver has to be in Program mode while remote programming via radio.

## Intrinsically Safe Versions

U922 is available in an intrinsically safe version that complies with classification EEx ib IIC T4. For the user this means that the battery cover is locked with Allen-head or Torx screws that require special tools so that these units are to be opened by authorized personnel only. EX approved transmitters are marked with information by classification category, approving authority and a classification number. The marking is engraved on the cover so that it cannot be removed or erased.

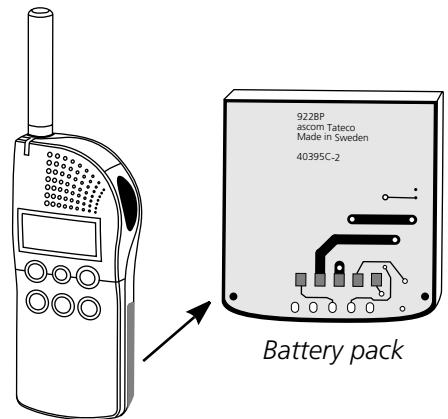
To use EX approved alarm transmitters certain regulations must be considered. See the document *General Description - Apparatus for Potentially Explosive Atmospheres (EX)*, doc. no. TD90842GB.



## Power Supply

### Battery Pack

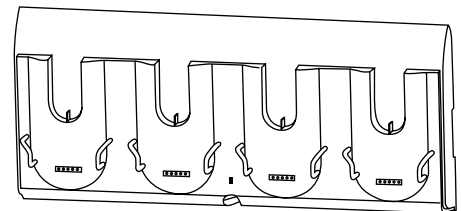
U922 is powered by a battery pack that includes two Ni-MH accumulators. The battery pack is fastened with two screws. The battery pack normally lasts 2-5 days, but can last less. This depending on which functions that are activated in the transceiver, the number of pagers and the length of the calls.



*Battery pack*

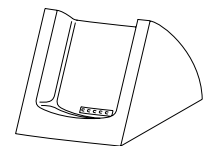
### Charging Rack and Desktop Charger

When a low battery warning is displayed, the battery pack must be recharged as soon as possible. If the battery is completely discharged, it can be damaged. The battery pack is recharged by placing the pocket unit in the T962M/T962E charging rack or the desktop charger T963.



*T962M/E Charging Rack*

Charging takes about one hour. To place the transceiver in the charging rack, open the clip and put it into the slot on the rack. When the unit is placed in a desktop charger, the green LED on the charger indicates a fully charged battery. In a charging rack, a steady LED on the U922 indicates a fully charged battery.

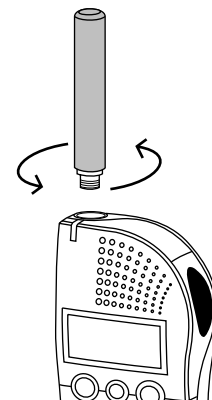


*T963 Desktop Charger*

The unit should be charged every 24 hours. Keep the unit in the charger when not in use. If the rack is connected to the system bus, the system can give an automatic absence indication when the transceiver is in the charging rack. The absent can be indicated in the unit that initiated the paging (for example a control keyboard in the teleCOURIER 900 paging system).

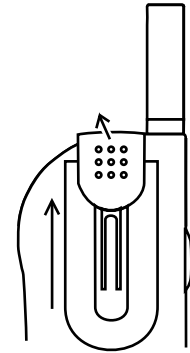
## Antenna Replacement

U922 has an external rubber antenna. The antenna can be easily replaced by unscrewing it with the fingers.



### Clip Replacement

U922 has a belt clip on the back. The clip can be easily replaced by lifting the top of the clip out from the unit and then pushing the clip upwards.



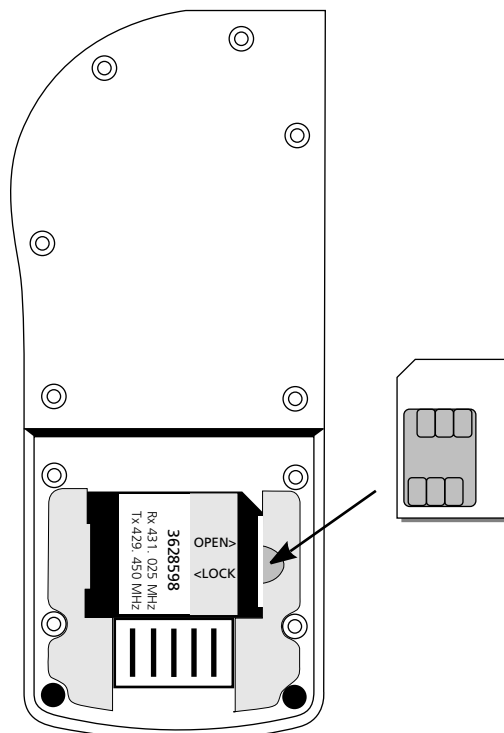
### For System Administrators

The system administrator uses the software application *Pocket Unit Programmer*, included in the software package *Win900 Base Kit*, to facilitate programming and for administration of pocket units. See section *Pocket Unit Programmer* below. For example, some functions can be open to the user and others locked.

### Programming the 922

The parameter memory consists of an EEPROM (SIM-card). The transceiver can be programmed in the storage/charging rack via the system bus or via radio with a so-called programming paging. See also the document *Win900 User Guide*, document number TD90838 in Volume 7 "Software". To program a transceiver in a charging rack, the transceiver must be switched on. The transceiver is programmed from *Pocket Unit Programmer* via the system bus.

The transceiver system identity and the call number can also be programmed via radio. When the transceiver is set to the "PROGRAM" operation mode it can receive a programming paging that is generated from a control keyboard or a telephone (via a PBX interface).



The transceiver memory consists of a SIM card located behind the battery pack.

The SIM card can easily be removed for replacement or to be put in another unit.

Slide the locking plate to the right and lift the card holder to remove the SIM card

### **Pocket Unit Programmer**

The Pocket Unit Programmer is an Windows based software application sorted under the software package Win900 base Kit. The Pocket Unit Programmer is used to read, modify and set parameters in the pocket units. It is started from the Site manager or from Pocket Units application in the Win900 base Kit. When setting the parameters in the pocket unit, it is possible to work with a site database (Site Database Mode) or directly with the pocket unit placed in a storage/charging rack (Direct Mode). In Site Database Mode, the parameter settings are stored in a database file. In Direct mode, the parameter settings are only stored in the pocket unit. It is only available if a Win900 base kit for Service license is used.

With the Pocket Unit Programmer it possible to set:

- The unit's identity, call number and five additional call numbers
- The maximum time for not receiving an out of range check paging.
- Character set to be used in the display.
- The unit's prefix and transmitter frequency.
- Whether the call number presentation, memo function and test paging (when the pocket unit is removed from a charging rack) is to be enabled.
- The function of the OK button when it is pressed immediately after numbers have been entered, "Send" or "Store".
- The modes accessible in the pocket unit (Off, Silent, Set, Program, User input and Test mode). It is also possible to set if error area should be shown at start-up.
- Which functions the user is allowed to change in the pocket unit (Volume, Time stamp, Additional call numbers and Remind beep).
- Number of sequences the beep and LED signal is to be signalling.
- The beep code to be used (one beep, two beeps, three tone chime, internal telephone ring signal, external telephone ring signal, siren or same siren as the 910 receivers).
- The beep volume and if the volume should be rising by time.
- Whether the Vibrator and Remind beep should be enabled.
- Whether the time stamp function should be enabled and how it should be presented (as 12 am/pm or 24 hours)
- The mode, information and warning texts to be used in the pocket unit.
- Which function of each hot key no. 1-6 that should be enabled (System mode change, Speed call, Man down alarm/No movement on/off or Pull/external alarm on/off). With the system mode change enabled it is possible to control some system functions in the central equipment, e.g. manual absent indication.
- Whether it should be possible to initiate a speech call from the unit and if predial or not should be used. Without predial, the first call number is transmitted when initiating a call. With predial, a number can be entered that is transmitted, when a call is initiated. If no number is entered, the last transmitted number, if any, will be transmitted again. It is also possible to set if speech transmission should be allowed during low battery.
- The maximum speech time allowed.
- The default speech volume.

- Whether the pocket unit should check if the radio channel is occupied or not to ensure that the speech call will be received.
- The Sub tone frequency and the time from control tone time-out until the pocket unit shuts off the loudspeaker and terminates the reception.
- Whether the pocket unit should receive location codes and if so, in what interval the unit should receive the codes. Intervals is used in order to save battery.
- Whether the pocket unit should send a strong acoustic signal after a Man down, Push button, Pull cord, or an External alarm has been transmitted.
- Whether the pocket unit should wait for Technical acknowledgement and if so, how and the number of times the unit is to repeat the alarm transmission.
- Whether the stored location codes should be erased when the unit is in OFF mode.
- Whether the unit should send an alarm directly when receiving a Special Location Transmission.
- Whether the unit should be used to test fixed locators and thereby indicate when receiving a location code
- Whether the man down, pull cord and external alarms should be enabled. With mandown alarm means either tilt alarm or no movement alarm. If the mandown alarm is enabled it is also possible to set the delay and alarm duration time of the alarm.
- The One push and two Push functions of the alarm push-button and the time the push-button must be pressed.

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# **User Manual**

## **Transceiver U922**