

Alarm Transceiver U922K

Features

- Manual and automatic alarm
- Location function
- Two-way data (receives text messages; transmits alarms or acknowledgements)
- Two-way speech
- Tone and display messages
- 24 character LCD display with back lighting
- Up to 120 characters per message
- Up to 10 displayable stored messages
- Personal settings stored in removable SIM-card, which is reprogrammable in charger or via radio
- Accumulator in special pack, both NiMH and NiCd available
- Intrinsically safe or vibrator version as option

System dependent:

- Time-stamped messages
- Surveillance as option
- Can be used in a "Geprüfte Sicherheit-system"

General

The U922K transceiver is used in the Personal Security System. The receiver operates in the UHF range, while the transmitter can operate either in the UHF or VHF range. The transceiver can transmit and receive voice and text messages, transmit alarms and receive acknowledgement pagings.

Versions

U922K is a two-way speech alarm transceiver with 15 button keypad. As an option the unit can be equipped with a receiver for location codes sent via infrared signals, LF magnetic field or both. For a more detailed description of different versions, please contact your Ascom product distributor.

Applications

Pagings

When a paging is received the user is alerted by tone, light and vibration (optional). One of seven different alert signals can be received. Each one is programmable in the transceiver. Typical examples are ring signal and siren. In silent mode the speaker is disconnected. Alarm pagings override the silent mode. If messages are not acknowledged, a beep is heard every minute as a reminder.

The ten most recent messages are saved in the memory. Call number on/off function activates or deactivates up to five of the six call numbers. Most internal functions can be customized individually for each transceiver.

Several built-in test functions ensure proper func-



tion. Both internal and system functions are supervised.

Alarms

The push-button alarms can always be operated. Pulling the pull-cord, fitted to the base of the transceiver, activates a pull-cord alarm.

A no-movement alarm is activated if the transceiver has not been moved within a pre-set time period. Before the alarm is transmitted, a warning signal continuously sounds. The alarm transmission is prevented if the unit is moved or the OK-button is pressed while the warning signal is heard.

A man-down alarm is activated when the unit is tilted more than $60^\circ \pm 10^\circ$ from upright position. The transceiver can have either no-movement alarm or man-down alarm, not both.

The supervision function enables the system to continuously check if the unit works properly. It is enabled or disabled when the unit is removed or placed in a storage rack.

It is also possible to attach an external alarm.

Speech

Calls are answered by pressing the transmit button. When starting a call from the 922 a busy tone sounds if the channel is occupied. When the channel is available an alert tone sounds. The call can be restarted by pushing the transmit button.

Technical specifications are listed on the following page.

Technical Specifications

Dimensions	124 x 51 x 19 mm excl. antenna. Display: 55 x 23 mm
Case	PC/ABS, grey
Keypad	15 Buttons + Alarm + Talk
Weight	150 g incl. battery
Sound pressure level	> 100 dBA at 10 cm (bleep)
Temperature range	-10 to +55°C
Display	2 x 12 character DOT Matrix LCD
Character capability	Roman + Extended Roman / Roman+Cyrillic-Greek / Roman + Hebrew + Arabic
Battery type	Special pack with either NiMH or NiCd cells
Battery time, min	2 h (Transmitter on continuously)
Battery time, max	96 h (No pagings, Battery Save Time at 0,5 s, Location Read Interval at 0,5 s and not within the coverage area of a locator)
Waterproof	EN60529, IP64
Shock resistant	IEC 68-2-32, procedure 1, dropped from 1 meter 12 times
Radio section	
Frequency range	420 - 470 MHz (Rx), 149.8–151.1, 159–161.2, 170.5–170.8, 420 - 475 MHz (Tx)
FSK modulation, both Rx and Tx	3 kHz deviation at 20 and 25 kHz channel spacing 1.5 kHz deviation at 12.5 kHz channel spacing
Adj. channel selectivity	Comply with ETS 300 224 and 300 220
Spurious response rejection	Comply with ETS 300 224 and 300 220
Spurious emission	Comply with ETS 300 224 and 300 220
Sensitivity	10 µV/m at 3 kHz deviation
Antenna	Helical
Radiated Power	> 10 mW ERP
IR Receiver Section	
Carrier frequency	39.6 kHz
Sensitivity	25 nW/cm ² at 950 nm > 17 m line of sight from IR locator (100 mW/sr)
LF Receiver Section	
Carrier frequency	39.6 kHz
Sensitivity	30 µA/m 3 m in free space when the LF-locator is set to max. range

Options

- Intrinsically safe version
Handsets without vibrator and location function via LF magnetic field are available in intrinsically safe version (EX-version) according to EEx ib IIC T4 standard
- Vibrator (**Note:** Vibrator cannot be combined with Man-down or No-movement alarm)
- Pull-cord alarm
- Man-down or No-movement alarm

Accessories

- Safety cord
- Leather holder

Specifications are subject to change without notice.