

PS3-BA Personal Security Transceiver

PS3-BAX Personal Security ATEX version



- Personal Security mobile and communication in one
- Manual and automatic alarms with location detection
- Fast and reliable messaging
- System scanning and self-test function
- Absent detection and message forwarding
- Robust, water resistant and dust proof
- Obtainable in ATEX version

The Personal Security Transceiver (PS-Transceiver) is a compact and robust mobile that combines the protection offered by a personal alarm device with the convenience of two-way speech and a pager. This stylish and reliable product helps prevent incidents becoming emergencies.

The PS-Transceiver is designed for personnel working in environments where personal alarm and communication is essential. It provides two-way group speech, fast messaging and personal security with location information in emergency situations.

The PS-Transceiver offers two manual alarms. Each alarm is programmable for loud or silent (discrete) alerting. It also features a tear-off and three automatic alarms (No-move, Man-down, Fast-move). Each alarm can be programmed separately.

Standard built-in location detection provides emergency teams quickly with detailed information to pinpoint the exact incident scene.

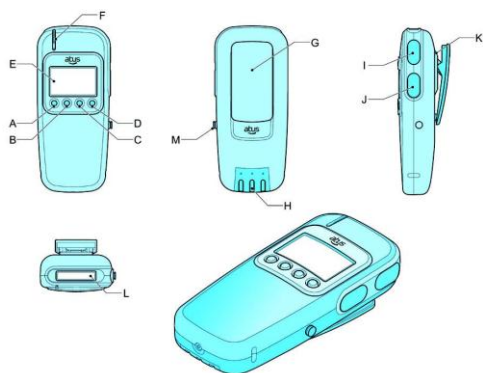
A complete Push-to-talk speech function allows the user to contact individuals or large groups of people simultaneously. During emergency situations alarms can be verified and detailed alarm information can be provided direct to the emergency teams.

The PS-Transceiver also has a wide range of uses during everyday tasks. It provides fast messaging for individuals and large groups. Alphanumeric paging calls are displayed on the reversible top display as well as the graphical front display. An automatic scroll function enables easy reading, and icons and buttons on the front panel allow message handling.

A vibrator is standard for discreet alerting in situations where audio beeps are inadequate or inconvenient, e.g. noisy environments, nightshifts or Deaf-Alert.

The PS-Transceiver system can be connected to a wide range of originating sources such as PC's, machinery, fire alarm panels, and nurse call systems.

The PS-Transceiver combines personal alarm, fast messaging and speech communication in one mobile.



System Overview

PS-Transceiver overview

- A-D Soft keys
- E Graphical front display
- F Microphone and LED (red and green)
- G Safety clip
- H Battery recharge contacts
- I Manual alarm button (red)
- J Push-To-Talk, Reset button and acknowledge (black)
- K Loudspeaker (behind the clip)
- L Top display, reversible
- M Panic/Tear-off cord connector



Internal components

- 1 PS-Transceiver base
- 2 Receiver module VHF or UHF
- 3 Transmitter module UHF

Note

The transmitter and receiver modules are listed in Ordering Information with the suffix xxy where xxy indicates the required receiver/ transmitter frequency for a customer.

Functions

Personal Security Function

Two manual alarms are available:

- Pressing the large RED alarm button (on the side of the mobile) for more than one second will activate alarm 1 and notify the emergency team.
- When the RED button is pressed quickly two times, alarm 2 is activated and sent

The automatic alarms are:

- Tear-off alarm, the alarm activates if the tear-off cord is forcibly removed from the mobile.
- No-move, the alarm activates if the mobile is motionless for a pre-programmed period of time.
- Man-down, the alarm activates if the mobile is in a horizontal position for a pre-programmed period of time.
- Fast-move, the alarm activates if the mobile is fast moving for a pre-programmed period of time.

Alarms can be set to silent alert where assistance is required and where an audible alarm could escalate a threatening situation, or is inconvenient (for example on a night shift). The BLACK acknowledge/reset button is pressed to acknowledge or to reset the alarm status. Location detection is a standard PS-Transceiver feature; locations are sent automatically with every scan call and alarm call. The location information ensures the response team is quickly guided to the alarm scene. A programmable Life-sensing and mobile scanning function provides extra security for a save working situation. When enabled, the user can start a mobile “self” test to ensure correct working mobile at all times. The out-of-range, battery low, and system monitoring functions ensure a secure and safe work situation.

Communication Functions

- A Push-To-Talk (PTT) speech function to inform individuals or large groups of people simultaneously.
- Fast and reliable group messaging.

The mobile has a high quality two-way Push-To-Talk (PTT) speech function. This PTT speech function allows the user to speak to one or a large group of people at once. The large build-in address book can easily be accessed by the user. Scrolling in the address book, with up to 100 entries, can be done step by step or with a fast-scroll function. The mobile has a redial function and the PTT button can be programmed as a quick-dial.

Both displays are illuminated when a message is received or a button is pressed

- The 12-character top display is reversible and the auto scroll function provides convenient hands-free message reading
- The graphical front display has 3 lines of 12 characters, plus soft key icons for menu navigation. If applicable, the mobile can give visual and audible indication of a low battery and/or out-of-range condition

Automatic or manual scrolling enables easy reading of messages, which can be up to 48 characters in length. The last 10 received messages are held in a memory stack and can be recalled when needed. For bleep alerts and voice messages a loudspeaker is located at the rear of the mobile, protected under a fixed clip. This clip has an overstress feature which protects the pager and clothing from damage. The clip design means loudspeaker output is not muted by clothing, assuring crisp and clear voice messages and bleeps. Messages can be received with 14 different pre-selected bleep and vibrator patterns. A bright red/green LED, on the top of the mobile, indicates charging status and message reception. For optimal user attention, the LED remains flashing 8 seconds after the message bleep has stopped. If the PS-Transceiver is in a storage rack, an absent indication is sent to the caller. Alternatively, absent forwarding can be enabled in the central control for guaranteed message transfer.

Addresses and User Settings

The PS-Transceiver has up to 8 different programmable addresses:

- 1 x ALL call address
- 1 or 2 Individual addresses (if telemetry is not enabled)
- 5 x Group addresses
- 1 x Telemetry address (if enabled)

User settings can be altered simply and quickly using the soft keys (on the front of the mobile) and the on-screen menus.

The following settings in the menus are set by the system manager as enabled or disabled for the user:

- Allow user to power off
- Allow user to remote reset the alarm
- Bleep- and Speech volume
- Vibrator on/off
- Reversing top display
- Set Quick Dial and Call desk
- Automatic alarm settings
- View mobile configuration
- Start mobile self-test

Integrated security and communication

The PS6000 and DP6000 Systems are compatible with each other and can interface with other systems, creating a system that caters to specific communications and personal security requirements.



ATEX Version

The PS3-BAX is the ATEX version of the PS3-BA, further all functions described in this data sheet are valid for both type of mobiles.

Certifications and Approvals

CE-Marking	acc. To Telecom directive 1999/5/EC
Safety	acc. to EN 60950-1 (EN62368-1)
ESD	acc. to EN 61000-4-2
	air: 15 kV; contact 8 kV
EMC	acc. to ETSI EN 301 489- 1
	acc. to ETSI EN 301 489- 2
Telecom	acc. to ETSI EN 300 224- 1
	acc. to ETSI EN 300 224- 2
Bump	acc. to IEC 60068-2-29
Vibration	acc. to IEC 60068-2-6
Drop-test	acc. to IEC 60068-2-32
Dust and waterproof	IP 65
ATEX Classification	II 2 G Ex ib IIC T4 Gb: (gas classification)
	II 2 D Ex ib IIIC T50 °C (dust classification)

Parts Included

Quantity	Component
1	Personal Security Transceiver
PS3-BA	PS-Transceiver base
PS3-BAX	PS-Transceiver base ATEX version
PS2-RXV-xyy or PS2-RXU-xyy	Receiver module VHF or Receiver module UHF
PS3-TXU-xyy	Transmitter module UHF

Note Base, receiver and transmitter module are delivered as one assembly, but must be ordered separately

Technical Specifications

Electrical

PS-Transceiver(base) PS3-BA(X)

Battery	600 mAh 3V6 NiMh rechargeable for ATEX 600 mAh 3V6 Li-Ion rechargeable NON ATEX
Charge time	3 hours (empty to full)
Operating time	24 hours (typical)
Maximum standby	60 hours
Bleep Volume (10 cm from clip) (typical)	soft: 78 dBA @ 2886 Hz normal: 90 dBA @ 2886 Hz loud: 97 dBA @ 3464 Hz

Transmitter Module: PS3-TXU-xyy

UHF Frequency	409 to 470 Mhz
Channel Spacing	20 kHz
Modulation	FM
Deviation	4 kHz
Output Power	10 dBm ~ 10 mW e.r.p

Receiver Module: PS2-RXV-xyy

VHF Frequency	25 to 50 MHz
Channel Spacing	10 - 12.5 kHz
Modulation	Typical 2 kHz (max 2.5 kHz)
Sensitivity	Typical 50 µV/m (VHF)

Receiver Module: PS2-RXU-xyy

UHF Frequency	409 to 470 MHz
Channel Spacing	20 - 25 kHz
Modulation	4 kHz (max. 5 kHz)
Typical Sensitivity	Typical 15 µV/m (UHF)

Mechanical

Weight (incl. battery)	159 grams
Dimensions (H x W x D)	120 x 52 x 26 mm
Housing Material	Polycarbonate / ABS

Environmental

Operating temperature	-10 to +55 °C
Storage temperature	-20 to +70 °C
Charge temperature	+10 to +35 °C
Relative Humidity	15 to 95%, non condensing

Quality and reliability

MTBF > 50,000 hours at 25 °C

Ordering Information

PS3-BA Personal Security Transceiver

compact and robust mobile that combines the protection offered by a personal alarm device with the convenience of two-way speech and a pager

PS3-BA Personal Security Transceiver, ATEX version

PS3-TXU-xyy Transmitter Module UHF

please contact your supplier for the ordering number for your required frequency

PS2-RXV-xyy Receiver Module VHF

please contact your supplier for the ordering number for your required frequency

PS2-RXU-xyy Receiver Module UHF

please contact your supplier for the ordering number for your required frequency

Accessories (to be ordered at the service channel)

LBB 5302/00 Leather Pouch PS2/3Black (incl. with ATEX version)
LBB 6711/10 Belt Click – Clip
LBB 6713/00 Safety Clip