

## PS2-B and PS2-BA Personal Security Pager



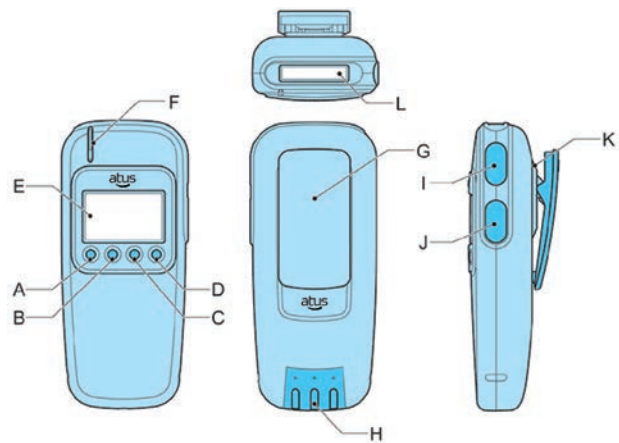
- **Personal Security mobile and pager in one**
- **Location detection, system scanning, self test function**
- **Manual and automatic alarms**
- **Absent detection and message forwarding**
- **Loud and clear bleep/voice reception**
- **Fast charge and long standby time**
- **Water resistant and dust proof**

The Personal Security Pager (PS-Pager) is a compact and robust mobile that combines the protection offered by a personal alarm device with the convenience of a speech pager. This stylish and reliable product helps prevent incidents becoming emergencies. The PS-Pager is designed for personnel working in high risk environments:

- Unpredictable psychiatric patients or prison inmates can be a real threat. The PS-Pager offers the possibility to quickly alert colleagues about a threatening situation and its location
- In industrial facilities the PS-Pager provides personal security and messaging with location information in emergency situations

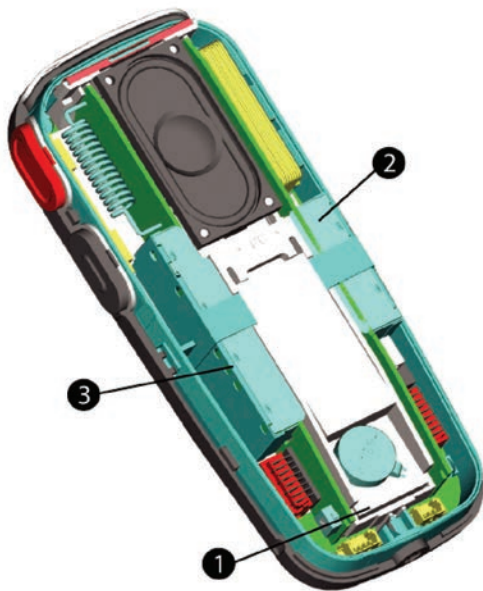
The PS-Pager also has a wide range of uses during everyday tasks. It provides a versatile instant messaging capability for individuals and large groups. The PS-Pager (PS2-B) offers two separate manual alarms. Each alarm is programmable for loud or silent (discrete) alerting. The PS-Pager (PS2-BA) offers, besides the two manual alarms 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 with detailed information to pinpoint the incident scene. 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 built-in as standard for discreet alerting in situations where audio bleeps are inadequate or inconvenient, e.g. noisy environments, nightshifts or Deaf- Alert. The PS-Pager system can be connected to a wide range of originating sources such as PCs, machinery, fire alarm panels, and nurse call systems. The PS-Pager is two products in one package, combining a personal alarm and fast communication.

### System Overview



Pager overview

A-D	Soft keys
E	Graphical front display
F	LED (red and green)
G	Safety clip
H	Battery recharge contacts
I	Manual alarm button (red)
J	Reset button (black)
K	Loudspeaker (behind the clip)
L	Top display, reversible



#### Internal components

- 1 PS-Pager 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 (PS2-BA):

- Tear-off alarm, the alarm activates if the “tear-off” clip 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-Pager 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. The out-of-range, battery low, and system monitoring functions ensure a secure and safe work situation.

### Display and Information Functions

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 display can also 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-Pager 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-Pager has up to 8 different programmable addresses:

- 1 x ALL call address
- 1 or 2 Individual addresses (if telemetry is 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
- Bleep volume
- Speech volume
- Vibrator on/off
- Reversing top display
- Show mobile configuration

### Backwards compatible

The PS-Pager is compatible with existing DP6000 and PS6000 On-site Paging and Personal Security Systems.

### Certifications and Approvals

Region	Certification
Europe	CE Declaration of Conformity
CE-Marking	acc. To Telecom directive 1999/5/EC
Safety	acc. to EN 60950
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

### Parts Included

Quantity	Component
1	Personal Security Pager (3 type numbers)
	PS2-B or PS2-BA PS-Pager base
	PS2-RXV-xyx or Receiver module VHF (F.01U.
	PS2-RXU-xyx 020.714) or receiver module UHF
	(F.01U.020.129)
	PS2-TXU-xyx Transmitter module UHF
	(F.01U. 020.713)

**Note** Base, receiver and transmitter module are delivered as one assembly

### Technical Specifications

#### Electrical

##### PS-Pager (base): PS2-B, PS2-BA

Battery	600 mAh 3V6 NiMH rechargeable
Charge time	3 hours (empty to full)
Operating time	60 hours (typical)
Maximum standby	170 hours
Bleep Volume (10 cm from clip)	soft: 78 dBA $\pm$ 3 dB @ 2886 Hz normal: 90 dBA $\pm$ 3 dB @ 2886 Hz loud: 97 dBA $\pm$ 3 dB @ 3464 Hz

##### Transmitter Module: PS2-TXU-xyx

UHF Frequency	409 to 470 Mhz
Channel Spacing	12.5 kHz
Modulation	FM
Deviation	2.5-kHz
Output Power	10 dBm ~ 10 mW e.r.p.

##### Receiver Module: PS2-RXV-xyx

VHF Frequency	25 to 50 MHz
Channel Spacing	10 or 12.5 kHz

##### PS-Pager (base): PS2-B, PS2-BA

Modulation	Typical 2 kHz (max 2.5 kHz)
Sensitivity	Typical 50 $\mu$ V/m (VHF)

##### Receiver Module: PS2-RXU-xyx

UHF Frequency	409 to 470 MHz
Channel Spacing	20 or 25 kHz
Modulation	Typical 4 kHz (max. 5 kHz)
Sensitivity	Typical 15 $\mu$ V/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
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### Ordering Information

**PS2-B Personal Security Pager** **PS2-B**  
compact and robust mobile that combines the protection offered by a personal alarm device with the convenience of a speech pager. Base including housing and battery

**PS2-BA Personal Security Pager** **PS2-BA**  
compact and robust mobile that combines the protection offered by a full featured personal alarm device with the convenience of a speech pager. Base including housing and battery

#### Accessories

LBB 5302 Leather Pouch PS2/3 Black	LBB5302/00
LBB 5302 Leather Pouch PS2/3 Red	LBB5302/01
LBB 5302 Leather Pouch PS2/3 Blue	LBB5302/02
LBB 6711/10 Belt Click - Clip	LBB6711/10