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**
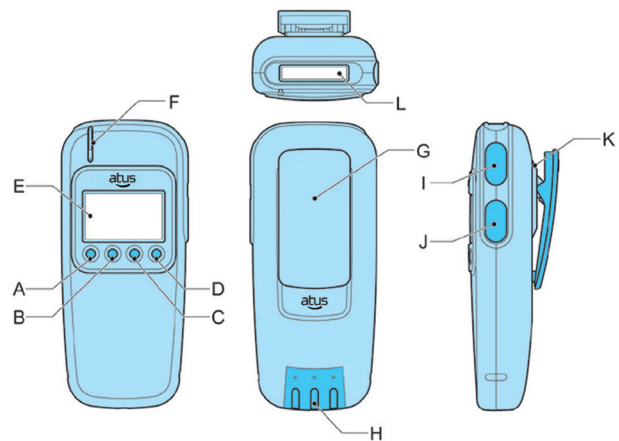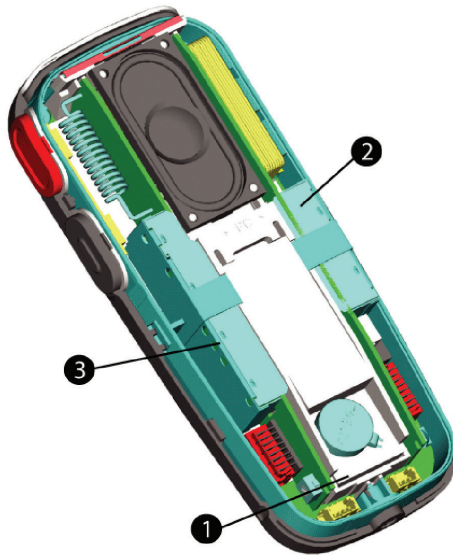- **Water resistant and dust proof**

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

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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 motion-
less 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 mes-
sage 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

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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-xxy or	Receiver module VHF
	PS2-RXU-xxy	Receiver module UHF
	PS2-TXU-xxy	Transmitter module UHF
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	24 hours (typical)
Maximum standby	60 hours
Bleep Volume (10 cm from clip)	soft: 78 dBA ± 3 dB @ 2886 Hz
	normal: 90 dBA ± 3 dB @ 2886 Hz
	loud: 97 dBA ± 3 dB @ 3464 Hz

Transmitter Module: PS2-TXU-xxy

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-xxy

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 µV/m (VHF)

Receiver Module: PS2-RXU-xxy

UHF Frequency	409 to 470 MHz
Channel Spacing	20 or 25 kHz
Modulation	Typical 4 kHz (max. 5 kHz)
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

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

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