

LBB6x9x High Performance Paging Receiver



- Versatile, compact and robust
- Simultaneous messaging to individuals or groups
- Dual display pager available with bleep, vibration and one-way speech
- Absent indication
- 1 individual and 5 group addresses
- Telemetry function for up-to-date monitoring
- Powered by commonly available AAA type battery
- Fast recharge cycle
- ATEX versions available

For use in an Atus DP6000 Digital Paging System, this range of high performance (Generation IV) paging receivers is fully backward compatible with the earlier versions. These paging receivers are designed for reliable and easy operation without compromising functionality. They come in a choice of two attractive color schemes, and the sturdy clip has built-in stress protection.

Models in the range offer vibration and one-way speech functions in various combinations to suit a range of needs. And are available in both VHF (LBB 619x versions) and UHF (LBB 609x versions). All receivers include a beep and a flashing LED to indicate incoming calls. Internal antenna ensures high sensitivity under all conditions. Designed to easily fit in a pocket, and controlled by a single button, the pager provides an effective and reliable communication tool.

All models are available as ATEX version.

Functions

Information for user

This dual display paging receiver enables a fast, reliable and complete transmission of potentially vital information for staff. The pager allows a textual alphanumeric message comprising up to 48 characters, in this way informing staff in a clear and easy to understand way. Messages can be normal “task-related” messages or telemetry messages providing “up-to-date” information if available (e.g. process monitoring).

The 24-character alphanumeric display, allowing two lines of 12 characters each, will illuminate whenever an alphanumeric message is received and when messages are being scrolled to enable clear readability in dark environments. An on-board memory ensures storing of up to 10 messages, which can be read or deleted while scrolling.

An on-top numeric display allows 5 digit numeric messages; these can be telephone numbers for the user to call or numeric codes representing tasks for users to follow up. These codes can be used to define events such as equipment breakdown, a reason for calling like in nurse call or room service systems.

The urgency of messages received can be indicated by up to 14 different bleep and up to 7 different vibration patterns (in case of pager types with vibration function) ranging from very urgent to normal urgency.

Depending on the programming of the paging receiver the bleep mode can be switched off (and vibration on) or set to a lower volume. This would be very convenient in extremely noisy environments or where the bleep could be disturbing.

Some pager types can also receive one-way speech messages to allow for verbal comments to an urgent message received.

Addresses

Each pager has 8 call numbers or addresses.

This includes 1 individual call address, allowing to solely call a specific pager.

Further 1 telemetry address for receiving "up-to-date" message information. If the telemetry function is not activated in the pager, this address serves as a second individual address.

Next a pager includes up to 5 group call addresses, allowing it to be addressed as member of a group of pagers.

Lastly each paging receiver comprises the so-called All-Call address by which all pagers in the system will be paged.

Warnings

Absent indication

If a call is sent to a paging receiver in a storage rack (the user has left the premises) an absent indication is sent back to the caller. The system can also be programmed to force the call to be rerouted to another paging receiver or a group of receivers.

Low battery warning

If the paging receiver detects that its batteries are low, the user will be informed as such by an audible warning bleep and icon warning on display. The low battery status will be regularly indicated by a low volume bleep and a flashing numeric display.

After 60 minutes of low battery the paging receiver will automatically switch off with a final shut-down bleep if no action is taken.

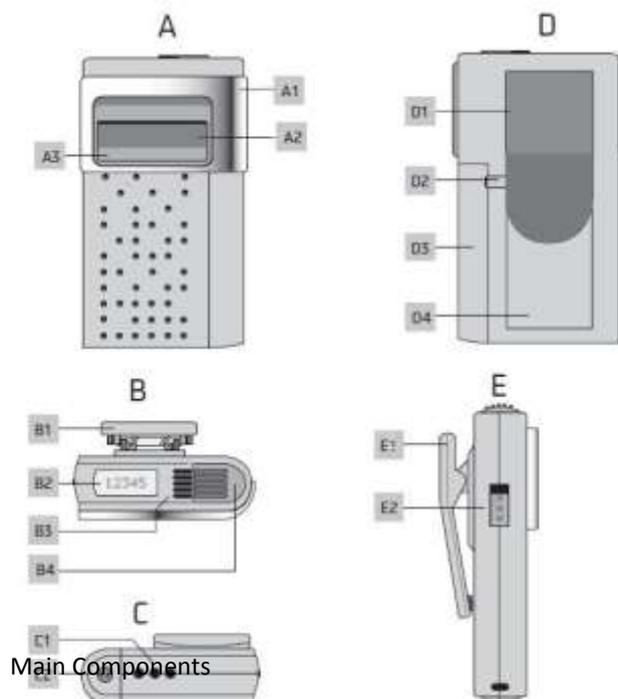
Battery saving

The receivers use rechargeable or disposable batteries, and include a built-in battery saving facility to economize on battery use. This facility switches the receiver On/Off periodically to reduce battery current.

Out of range indication

In order to ensure that pagers are always within the paging system's reach, all pagers are equipped with a so-called out-of-range function. When activated, the paging receiver will warn the user within 60 seconds that he went out of range of the paging system and paging calls can no longer be received. This is presented to the user via an out-of-range bleep and an icon on the display. After 30 minutes out-of-range the paging receiver will automatically switch off with a final shut-down bleep.

Pager Overview



A Front view

- A1 Vibrator
- A2 Alphanumeric LC-display with 24-character back lighting
- A3 Icon bar on display

B Top view

- B1 Pocket clip attachment
- B2 5-digit numeric display
- B3 LED indicator
- B4 RESET/RECALL button

C Bottom view

- C1 Charging/Programming contacts
- C2 Battery cover locking screw (ATEX versions only)

D Rear view

- D1 Pocket clip attachment
- D2 Battery cover lock (slide to open)
- D3 Battery compartment
- D4 Label placement

E Side view

- E1 Pocket clip attachment
- E2 3-position user switch (programmable functions)

The following table lists the options available for the different models:

UHF	VHF	Speech and vibration
LBB6093*	LBB6193*	
LBB6094*	LBB6194*	yes
LBB6098	LBB6198	
LBB6099	LBB6199	yes

* Light grey (all other models are dark grey)

Note: Each pager is also listed in the Ordering Information with the suffix xxy (e.g. LBB6093/xxy where xxy indicates the required pager frequency for a customer.

Certification and Approvals

Region	Certification
Europe	CE Declaration of Conformity
CE marking	Acc. to Telecom directive 1999/5/EC
Safety	Acc. to IEC/EN 60950-1
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
ESD	Acc. to EN 61000-4-2
	Contact: 8 kV; air: 15 kV
Bump	Acc. to IEC 60068-2-29
Vibration	Acc. to IEC 60068-2-6
Drop-test	Acc. to IEC 60068-2-31
Dust and waterproof	IP40
ATEX models	Acc. to ATEX directive 1994/9/EC
	Acc. to EN60079-0
	Acc. to EN60079-11
	II 2G Ex ib IIC T4 Gb
	II 2D Ex ib IIIC T 50°C Db
ATEX certificate	BKI15ATEX0008 X

Technical Specifications

Electrical

Power source Disposable AAA battery or rechargeable AAA battery of good quality

Current consumption (nominal)

VHF	4 mA
UHF	7 mA

Current consumption (battery saving on)

VHF	2.4 mA
UHF	2.5 mA
Current consumption off	7 μ A

Frequency range

VHF	25 to 50 MHz FM
UHF	409 to 470 MHz FM

Sensitivity

VHF	25-30 MHz	Typical 25 μ V/m (max. 60 μ V/m)
VHF	30-50 MHz	Typical 25 μ V/m (max. 35 μ V/m)
UHF	409-470 MHz	Typical 12,5 μ V/m (max. 25 μ V/m)

Channel spacing

VHF	10 kHz
UHF	20/25 kHz
Speech frequency band	300 to 3000 Hz
Bleep frequency	2886 Hz; 30 Hz cricketing

Mechanical

Housing material	Polycarbonate
Pocket clip	Safety clip
Dimensions (HxWxD)	92 x 52 x 32 mm
Weight (including battery)	
LBB6x93 and LBB6x98	85 g
LBB6x94 and LBB6x99	90 g
Color	Light or dark grey

Environmental

Intrinsic safe	Optional
Call loudness (at 10 cm)	
High volume	92 dB ± 4 dB
Low volume	69 dB ± 4 dB
Operating Temperature	-10 °C to +55 °C -20 °C to +40 °C (ATEX models)

Ordering Information

LBB6093/xyy UHF High Performance Paging Receiver 8900 609 3xyy1

Light grey, alphanumeric

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

LBB6094/xyy UHF High Performance Paging Receiver 8900 609 4xyy1

Light grey, alphanumeric, speech, vibration

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

LBB6098/xyy UHF High Performance Paging Receiver 8900 609 8xyy1

Dark grey, alphanumeric

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

LBB6099/xyy UHF High Performance Paging Receiver 8900 609 9xyy1

Dark grey, alphanumeric, speech, vibration

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

LBB6193/xyy VHF High Performance Paging Receiver 8900 619 3xyy1

Light grey, alphanumeric

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

LBB6194/xyy VHF High Performance Paging Receiver 8900 619 4xyy1

Light grey, alphanumeric, speech, vibration

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

LBB6198/xyy VHF High Performance Paging Receiver 8900 619 8xyy1

Dark grey, alphanumeric

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

LBB6199/xyy VHF High Performance Paging Receiver 8900 619 9xyy1

Dark grey, alphanumeric, speech, vibration, please contact your supplier for the ordering number for your required frequency

Accessories

LBB5304/00	Leather pouch Black	8900 530 40001
LBB5304/01	Leather pouch Red	8900 530 40101
LBB5304/02	Leather pouch Blue	8900 530 40201
For belt attachment		

Purchase locally

Rechargeable NiMH Battery (1 pc. required per pager)	AAA Type
Recommended battery types: (or equivalent)	GP100AAAHC 1.2 V typical 950 mAh GP65AAAHC 1.2 V typical 650 mAh

For ATEX:

Rechargeable NiMH Battery (1 pc. required per pager)	AAA Type
Compulsory battery type	GP65AAAHC 1.2 V typical 650 mAh