Scope Communications UK Ltd

RTESTPB User Manual

Contents:

	1 x PB1B, single-button transmitter (25mW RF output) with Listen Before Transmit (LBT).
	1 x MPA pendant MK4 transmitter (10mW RF output).
	1 x EPOC-S responder, two-way Critical Alert Communicator (25mW RF output).
	1 x Test synthesized receiver.
	1 x Test paging transmitter.
	1 x RS232 null modem cable.
	2 x ¼ wave aerials.
	2 x lightweight dipole aerial with lead.
	2 x heavy duty folded dipole aerial.
	2 x aerial lead for above.

Also included (not pictured):

2 x 12vdc mains power supplies
2 x battery connection leads (optional)
1 x PP3 spare single-button battery

IMPORTANT – record detailed results of the test, including areas tested and the type and exact location of transmitters and antennas.

Preparation for the Test

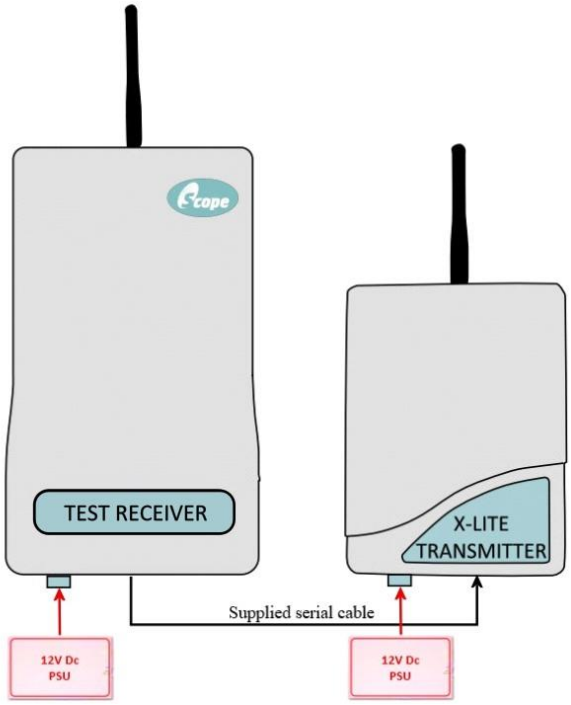
1. Attach the two ¼ wave aerials to the X-Lite transmitter and RX10 receiver.

2. Connect the supplied RS232 null modem cable from COM1 of the RX10 to COM1 of the X-Lite transmitter.

3. Position the RX10 receiver unit vertically, with the aerial as near to the proposed final mounting position as possible. The X-Lite transmitter should also be positioned so the aerial is vertical, but the position is less important as it is only being used to notify the test outcome.

4. Switch on the EPOC-S responder by pressing and holding the top right button for 5 seconds, see page 4 for instructions on how to change the alert mode on the EPOC-S responder, which may be set to beep-only or vibrate-only.

5. Connect the two 12v power supplies (or battery leads and suitable 12v batteries if used instead) to the RX10 and X-Lite.



Conducting the Test

IMPORTANT: There are 3 different low-power transmitter types in this test kit, PB1B Single-Button Transmitter, MPA Pendant MK4 Transmitter and the EPOC-S responder, two-way Critical Alert communicator.

Use the PB1B Single-Button Transmitter to simulate:

- LTX (OEM Lite Transmitter)
- WT4 (Wavetrack)
- SB1B (Single button transmitter)

- PB1B (Panic button transmitter with keyswitch)
- PB2B (Dual button panic transmitter with keyswitch)

Use the EPOC-S responder, two-way Critical Alert Communicator simulate:

- EPOC-BLU Responder, two-way Critical Alert Communicator
- EPOC-S responder, two-way Critical Alert Communicator

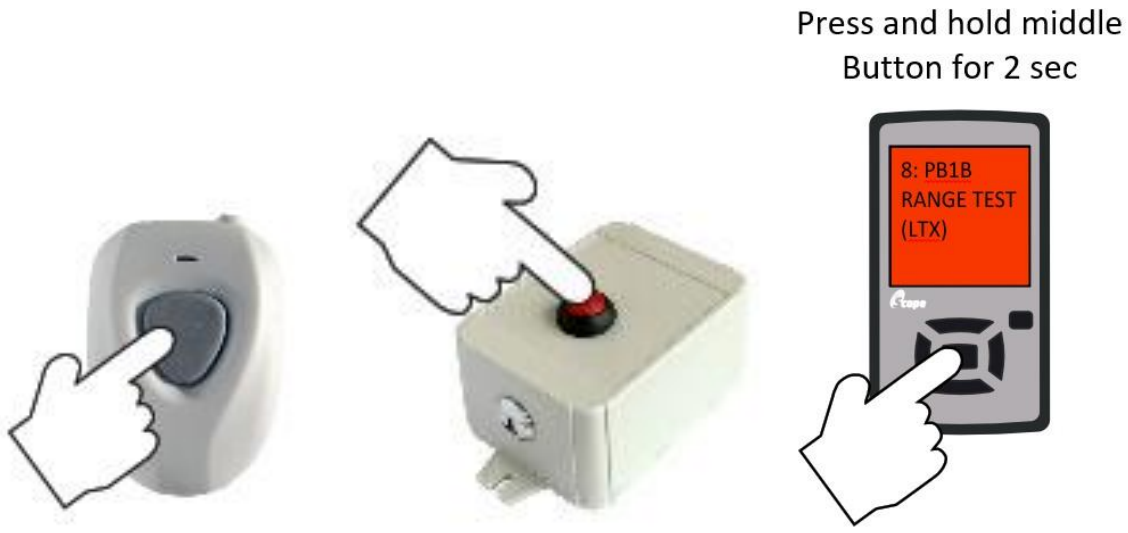
Use the MPA Pendant MK4 Transmitter simulate:

- MPA Pendant MK4 Transmitter

Range testing

1. Stand about 2m away from the RX10 receiver and press the button on the preferred transmitter. Check that a message is received on the EPOC-S responder. The message received by the EPOC-S will included an RSSI (signal strength) value number 0 – 8 at the beginning of the message, 1 very poor, 2-3 acceptable, 4-8 good.

   MPA Pendant MK4 Transmitted messages will be displayed with a green background.
   PB1B Single-Button Transmitted messages will be displayed with a red background.
   EPOC-S responder Transmitted messages will be displayed with a blue background.



2. Survey the entire site, sending a test transmission from each area and checking the text is fully received on the EPOC-S responder each time. Significant corruption of the text or receipt of a “tone-only” message indicates that you are at the very edge of the achievable range.

3. If the desired range is not achieved, change the RX10 aerial to the Lightweight Dipole, (assuring that the feed cable is not coiled, and the aerial is mounted vertically in the intended position) and repeat the test.

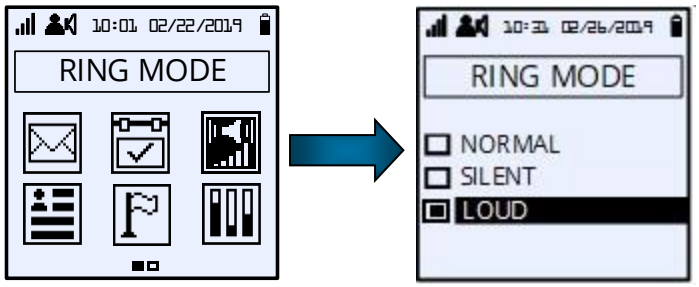
4. If the desired coverage is still not achieved then the RX10 aerial can be changed to the Folded Dipole and the test repeated, again assuring that the feed cable is not coiled, and the aerial is mounted with the ‘hoop’ pointing up and down.

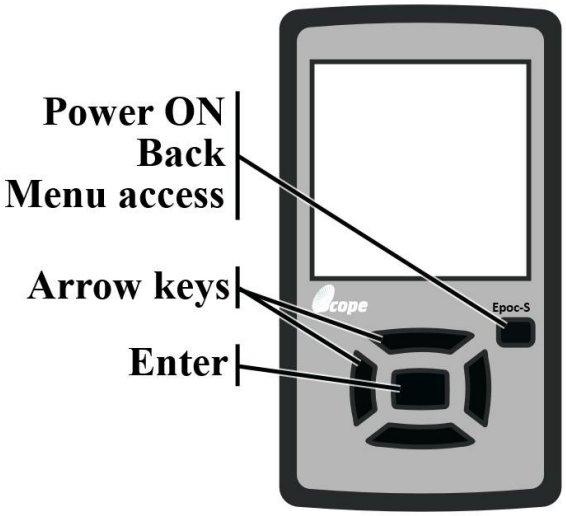
5. Lack of coverage even with the Folded Dipole will mean that additional repeaters will be required. Move the RX10 repeater, X-Lite transmitter, power supplies and aerials to a new proposed location and repeat the test, making sure that the coverage areas overlap.

IMPORTANT: You must make detailed notes and/or plans, clearly showing the RX10 and aerial installation position(s), the coverage achieved, and the aerial type(s) used. When the final system is ordered from Scope these details will be required.

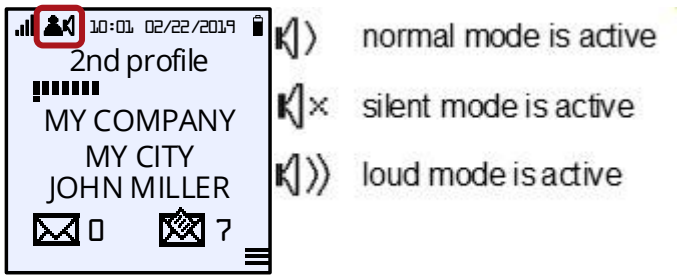
EPOC-S responder ring modes

- Enter Menu with Menu key (top right)
- Go to Ring mode menu with Arrow keys Push Enter key
- Go to desired choice with Arrow keys
- Validate with Enter key





Current ring mode is shown in icon header with a specific icon :



If any further advice is needed or technical manuals
Please call our Technical Support Department on 01803 860720 or support@scope-uk.com