

Scope Communications UK Ltd

PB1BM2 User Manual



# PB1BM2 User Manual



**PREFACE**

**Important Installation Information**

It is the purchasers' responsibility to determine the suitability of this equipment and its derivatives for any given application. To assist in this, a System Design certificate is provided at the back of this manual (see Annex A), which declares the system's intended purpose, its compliance with specific standards, and lists any applicable variations.

This system must only be installed after a thorough site survey has been performed, and only after the site survey report has been signed off to the satisfaction of both installer and purchaser.

Good working practice dictates that a suitable system installation log must be generated, together with a record of the dates when the system has been manually checked, (with the aid of signal strength meters etc.) enabling the system performance to be compared with the original installation data. The relevant data should be entered in the Log by the installer both at time of installation and following any subsequent site visits.

The supply of this equipment is governed by our standard terms and conditions of sale, which can be found on the reverse of all order acknowledgements\*, pro forma invoices\*, delivery notes, price lists and invoices. Alternatively, these can be provided on request.

\* Faxed pro forma invoices and quotations refer to "conditions available upon request".

**Important Safety Information**

Scope products are designed to operate safely when installed and used according to general safety practices. The following requirements should be observed at all times.

Do NOT subject this equipment to:

Severe Mechanical shock  
Excessive humidity or moisture  
Extremes of temperature  
Corrosive liquids

This equipment is designed for indoor use, unless expressly stated otherwise, and must not be used in classified Hazardous Areas, including areas containing explosive or flammable vapours, unless express authorisation has been given in writing by the manufacturer. If in doubt, consult your local product dealer for further information.

Only use a damp cloth for cleaning (not liquid or aerosol based cleaners), and ensure that any power is removed from the unit prior to beginning the cleaning operation.

Opening of access doors and removal of covers from the equipment must only be undertaken by authorised service personnel, who should ensure that power is isolated prior to commencing any maintenance work.

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#### Installation

Installation must only be undertaken by an Approved contractor, who shall ensure that all work is carried out in compliance with National Wiring Regulations and the relevant parts of BS 5839-1: 2017. In all cases, installation may only take place after a full radio site survey has been performed to the satisfaction of all parties. The installer shall issue Installation, Commissioning and Acceptance certificates to the purchaser, for completion by the Installer and (where applicable) the purchaser.

#### Liability

Scope does not accept liability for any damage or injury, howsoever caused as the result of misuse of this equipment. It is the responsibility of the user to ensure that the equipment is operated in the manner for which it was intended and that it is the correct item of equipment for the required task.

#### Warranty

This product is warranted as free from defects of workmanship and materials for a period of one year from the original purchase date. During this time, if there is a defect or malfunction of this product, Scope will, with proof of purchase, repair or replace at its discretion any defective parts, free of charge. This does not include where the adjustments, parts and repair are necessary due to circumstances beyond the control of Scope, including but not limited to fire or other casualty, accident, neglect, abuse, abnormal use or battery leakage damage.

**WARNING ! No User Serviceable Parts**  
**Caution! Risk of electric shock, do not open.**

Alteration or modification to any part of this equipment, without the prior written consent of the manufacturer will invalidate all manufacturer approvals and warranties. No adjustments can be undertaken except by qualified persons as authorised by Scope.

Hereby, the manufacturer Scope Communications UK Ltd declares that the radio equipment type: PB1BM2, is in compliance with Radio Equipment Directive 2014/53/EU and ROHS Directive 2015/863/EU. The full text of the EU Declaration of Conformity is available at the following internet address:  
[www.scope-uk.com/technical/doc/PB1BM2.pdf](http://www.scope-uk.com/technical/doc/PB1BM2.pdf)  
or from Scope at: Quantum House, Steamer Quay, Totnes, TQ9 5AL United Kingdom.



Do not discard. At end of life this equipment must be sent to an authorised waste treatment centre.  
Contact Scope at the above address for further details.



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As standard the PB1BM2 will come preprogramed and fully tested, (once a PP3 battery is fitted the PB1BM2 is ready to work).

The PB1BM2 has been designed, for wall or under-desk mounting, with a single top mounted button, which is required to be pressed to activate. The default set up, is sending a repeating signal (every ten seconds) when activated until it is reset by the key. However, it can also be programmed with up to a maximum of eight repeats with repeat time going from 5 seconds to 255 seconds in five second increments.

Multiple units can be used on a site, each sending its own unique identifier to the receiving devices, which could be pagers, fixed receivers, or a combination of both. UHF SRD radio transmitter with a range of up to approximately 200 metres (dependent on-site conditions) Power is provided by a 9V (PP3) battery.

The PB1BM2 will send a low battery message at 7.5 Volts and if it stays below 7.5 Volts it will transmit the low battery message every 15 minutes. When the voltage drops to 7 volts it will transmit a single shutdown message then turn off. It's recommended that these messages are to be added to your current set up. Please note unless scope is made aware these messages will go out on a single group call. The PB1BM2 can also be set up with test calls, which can be helpful to see when a unit goes offline. However, this does decrease battery life.

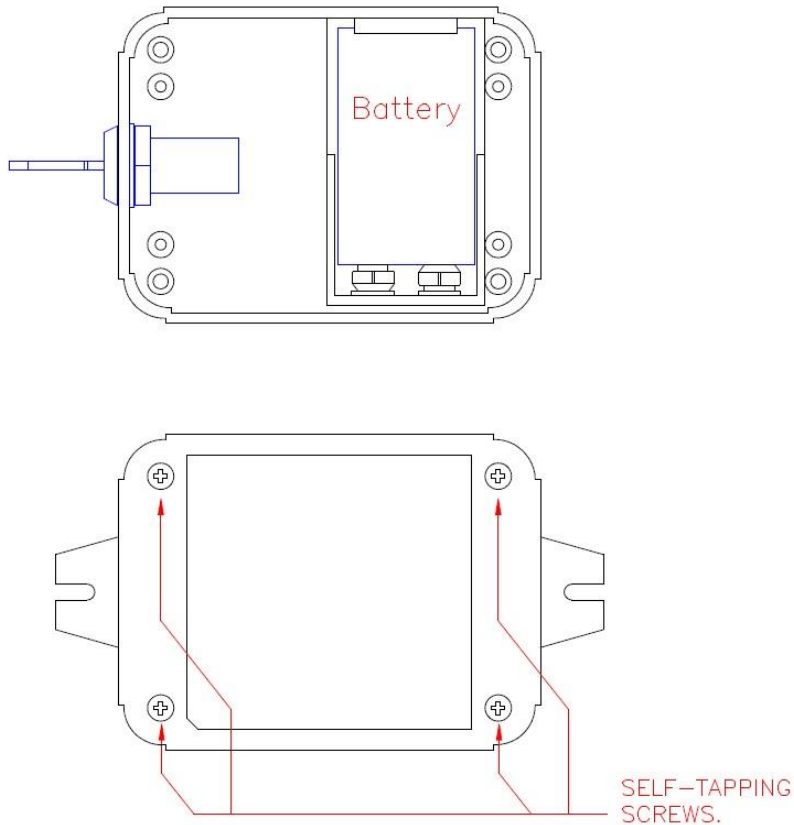
A programming kit (part code LTXPROG) can be purchased to program the PB1BM2 messages or options on site.

### Fitting / Replacing PP3 battery

- 1, To fit / replace the PP3 battery, the bottom of the case must be removed, by unscrewing the 4 self-tapper screws located on the underside of the case with an appropriate screwdriver.
- 2, With all 4 self-tapper screws removed, lift, and rotate the base away from the case top, being mindful of the cables.
- 3, The black PP3 battery holder is hold in place with Velcro and most removed from the case to fit / replace battery, do not use anything metal or conductive to remove the battery holder.
- 4, With the black battery holder removed, place the PP3 battery into the battery holder checking the battery polarity.
- 5, Refit the battery holder into the case top.
- 6, Place the case bottom back on to the case top and refit the 4 self-tapper screws with an appropriate screwdriver.
- 7, Press the single top mounted button and the red lit will illuminate, how reset the PB1BM2 by using key switch.

PB1BM2 is now working.

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If any further advice is needed or technical manuals  
Please call our Technical Support Department on 01803 860720, [support@scope-uk.com](mailto:support@scope-uk.com) or visit  
<https://www.scope-uk.com/technical-support>

Specification

Power Input 9Vdc battery (PP3)

Current Consumption

Transmit (@ 25 mW) Tx = < 70mA, Sleep Mode < 112uA

Temperature

Operating -20 to +55 Deg. C

Transmitter

Freq Range: 433-459 MHz (UK/Europe)

Frequency Accuracy: +/- 1.0KHz (max) over operating temp range.

Power Output: 25mW max.

Channel Spacing: 12.5KHz.

TX Baud Rate: 512/1200/2400

Transmit Protocol: POCSAG

Footprint

(W) 60 x (L) 80 x (D) 43 mm (excluding tabs)

UK/Europe Compliance

Radio Equipment Directive 2014/53/EU radio parameters

EN 300 220-2 V3.1.1 (2017-02)

ROHS Directive 2011/65/EU

Scope's policy is one of continuous development and specifications