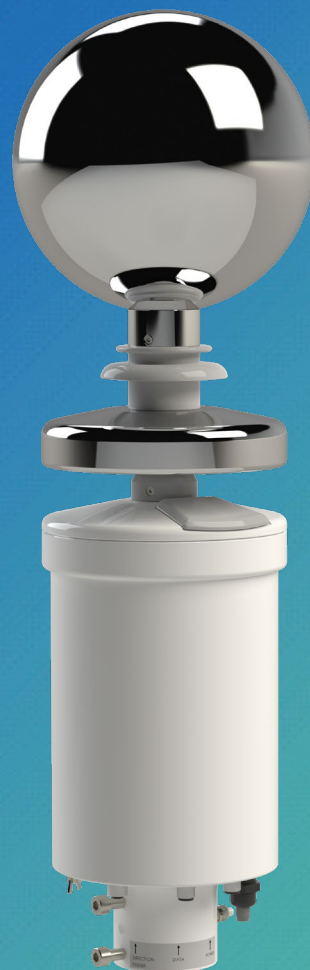


BTD-1

Flash Signal Generator (FSG)

Installation Instructions



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General Information

BTD-1 Flash Signal Generator (FSG) Module

The optional FSG module can be fitted internally to the BTD-1. The FSG simulates lightning directly onto the antenna using electrical signals providing a means of advanced hardware self-test. It is recommended for installation in remote areas, allowing for hardware testing to be performed off-site.

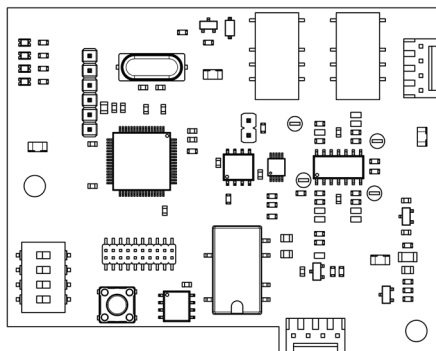
Technical Specification

Description	BTD-1 FSG Module
Max Power	1W
Operating Voltage	5VDC
Operating conditions	-20...+60 °C / 0...95 %RH / Max. altitude 2000m
Related Standards	IEC61326-1:2021 RoHS/WEEE

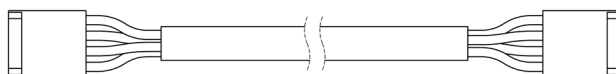
1. FSG Module Kit

Supplied in the kit:

FSG Board *(Component layout may differ to that shown below)*



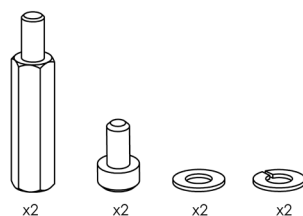
FSG Power Comms Cable



FSG Signal Cable

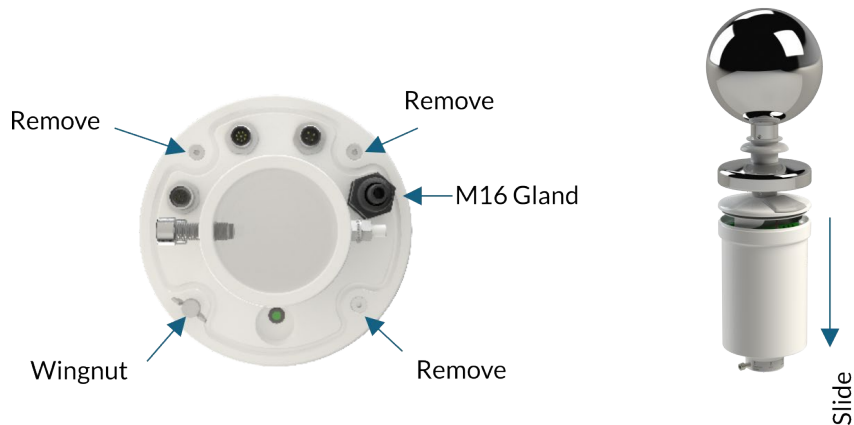


Spacers & Fasteners



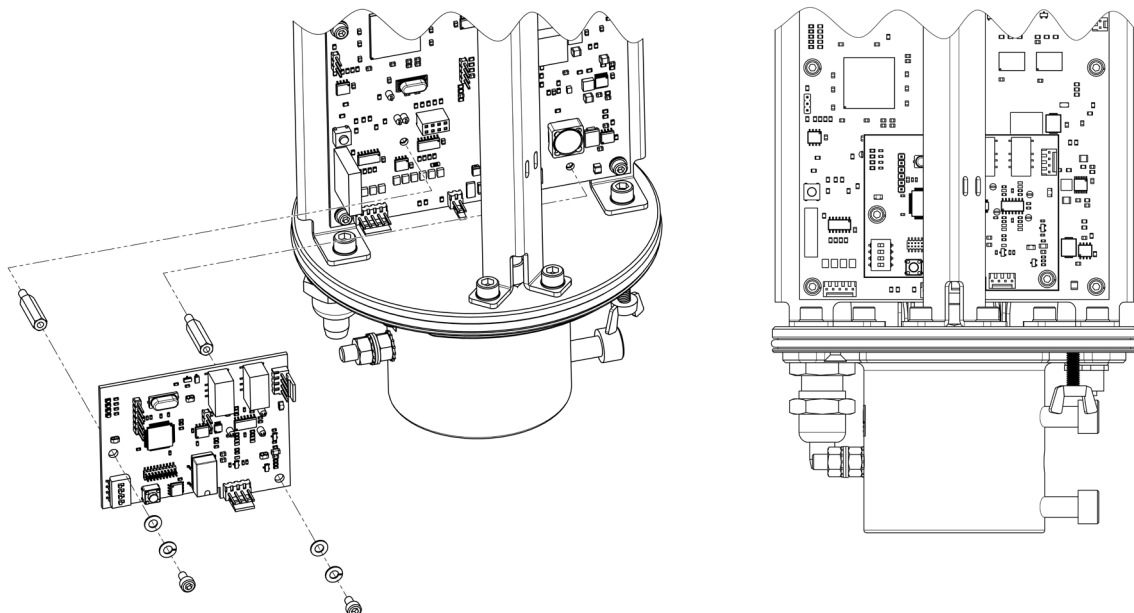
2. Cover Removal

- Ensure the BTD-1 is disconnected and no power is supplied to the unit.
- Remove the BTD-1 cover by removing the three M3 countersink screws at the base of the unit.
- Pull down on the cover, use the wingnut to assist if needed.



3. Install FSG PCB

- Screw the 2 Hex Spacers in through the 2 holes in the PCB as shown below.
- Secure the FSG PCB onto the Hex Spacers using the 2 off flat Washers followed by the 2 off Spring Washers and the 2 off Screws.



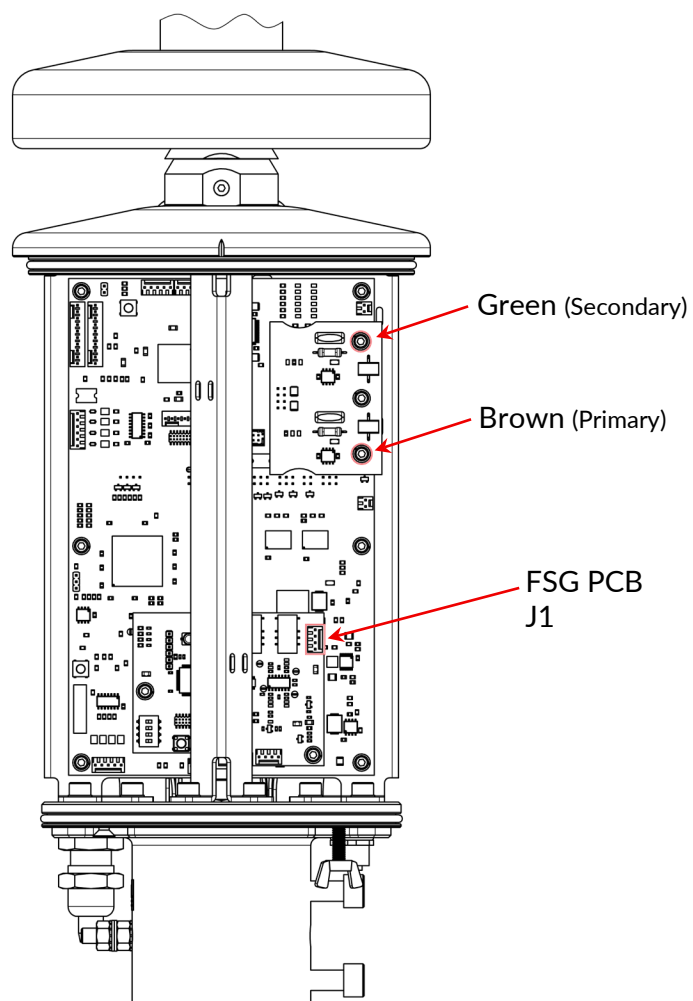
4. Signal Cable

- Connect the 4 way Connector of FSG Signal Cable to Connector J1 on the FSG PCB.
- Connect the Ring Terminals on the other end of the Signal Cable as follows:

Brown to Primary

Green to Secondary

Ensure the cable is kept well inside the BTD-1 to avoid fouling with the Cover when it is put back on.

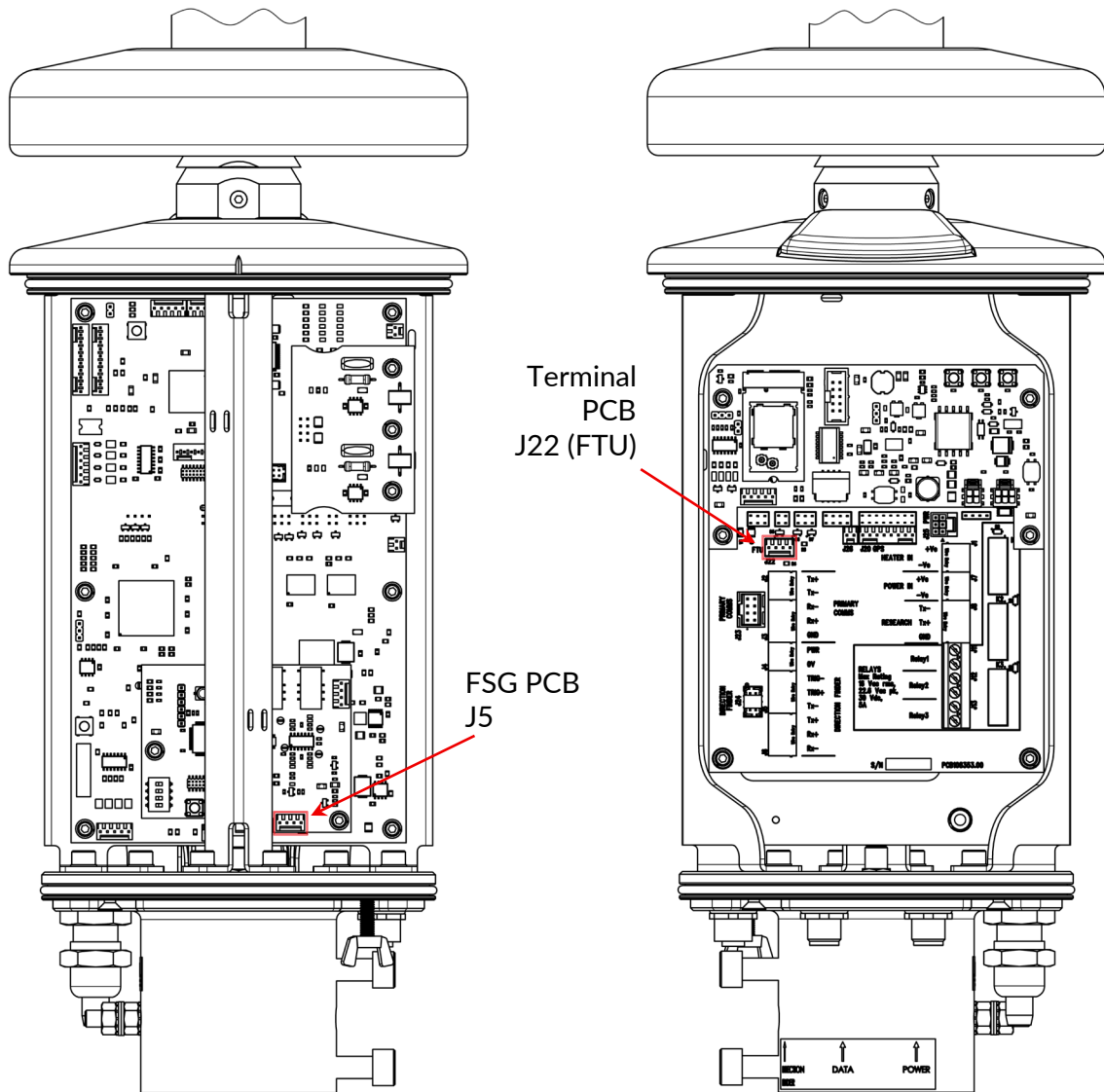


5. Power Comms Cable

Connect one end of FSG Power Comms Cable to Connector J5 on the FSG PCB.

Connect the other end to Connector J22 (labelled FTU) on the Terminal PCB.

(It does not matter which way round the Cable is connected)



6. Re-fit Cover

Ensure the wing nut is fully removed.

Slide the cover back over the BTD-1 and tightening the M3 Screws.

Re-insert the wing nut.

Refer to the FSG User Manual for operation.

WARRANTY

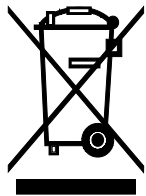
The manufacturer is required to respond to the "factory warranty" only in those cases provided by the Consumer Rights Act 2015. Each instrument is sold after rigorous inspections; if any manufacturing defect is found, it is necessary to contact the distributor where the instrument was purchased from. During the warranty period (12 months from the date of invoice) any manufacturing defects found will be repaired free of charge. Misuse, wear, neglect, lack or inefficient maintenance as well as theft and damage during transport are excluded. Warranty does not apply if changes, tampering or unauthorized repairs are made on the product.

The manufacturer repairs the products that show defects of construction in accordance with the terms and conditions of warranty included in the manual of the product.

TECHNICAL INFORMATION

The quality level of our instruments is the result of the continuous product development. This may lead to differences between the information reported in the manual and the instrument you have purchased. We reserve the right to change technical specifications and dimensions to fit the product requirements without prior notice.

DISPOSAL INFORMATION



Electrical and electronic equipment marked with specific symbol in compliance with 2012/19/EU Directive must be disposed of separately from household waste. European users can hand them over to the dealer or to the manufacturer when purchasing a new electrical and electronic equipment, or to a WEEE collection point designated by local authorities. Illegal disposal is punished by law.

Disposing of electrical and electronic equipment separately from normal waste helps to preserve natural resources and allows materials to be recycled in an environmentally friendly way without risks to human health.



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