

BTD-1 PoE Module

Installation Instructions



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General Information

BTD-1 Power Over Ethernet (PoE) Module

The BTD-1 Lightning Warning System detects the presence of lightning flashes within 83km (53 miles) of the sensor and warns of the potential for overhead lightning even before the first lightning flash occurs. The optional PoE module converts the standard RS-422 communication protocol into a PoE enabled ethernet interface. This allows for power and data to be combined into one cable for ease of installation, and interfacing to existing ethernet infrastructure onsite.

The PoE option can be selected at the time of purchase, or it may be retrofitted at a later date. This user manual expects the PoE module to be fitted.

Supplied in the kit:

- PoE Interface Board
- PoE to BTD-1 Internal Power Harness
- PoE to BTD-1 Internal Data Harness
- PoE Internal Ethernet Harness
- 2m External Ethernet Cable (RJ45 to M12)

Note the M12 connector is field-wireable and may be reused

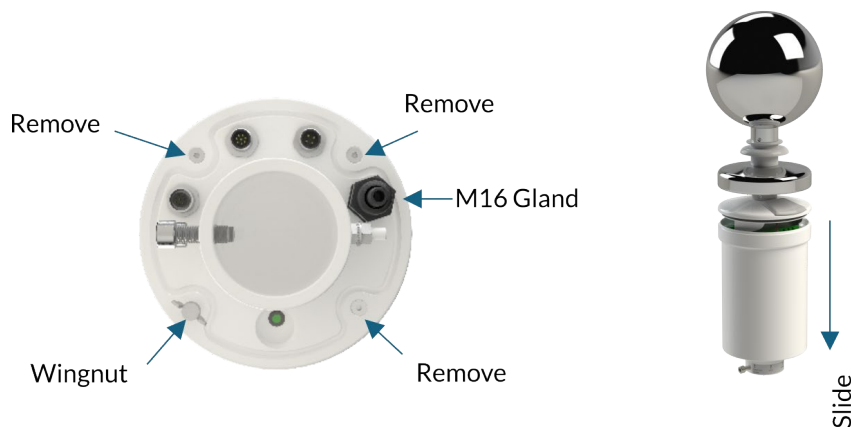
- Spacers & Fasteners

1 Technical specifications

Description	BTD-1 PoE Module
Ethernet Connector	Female M12 4 Way D-coded
Ethernet Speed	10/100BASE-T(X)
PoE Standard	IEEE 802.3at
PoE Max Power	13W
Bypass Voltage	9-36VDC
Bypass Power	50W Max
Operating conditions	-20...+60 °C / 0...95 %RH / Max. altitude 2000m
Related Standards	IEC61326-1:2021 RoHS/WEEE

2 Installation

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 bolts at the base of the unit. Pull down on the cover, use the wingnut to assist if needed.



Remove the Data lead from the primary comms port of the Terminal PCB inside the BTD-1 unit. Loosen and remove the Data lead from the base of the BTD using a 17mm spanner. Keep the lead to one side.

Remove the Power lead from the PWR port of the Terminal PCB. Temporarily stow the connector in the BTD-1 for fitment to the PoE board.

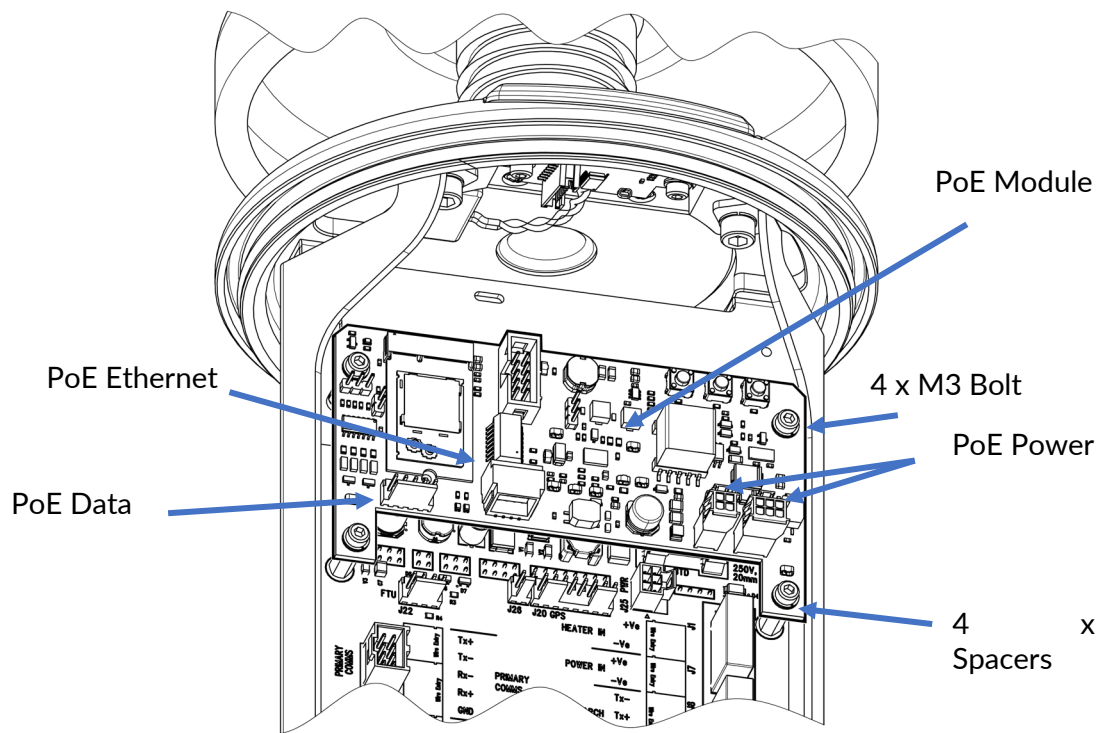
Remove the 2 x M3 bolts on the upper fixings of the BTD-1 Terminal PCB and replace with the 2 x M3 spacers. Fit 2 x M3 spacer to the chassis plate above the Terminal PCB.

Fit the PoE Module in the position shown, using the 2 x M3 bolts removed from the BTD-1 Terminal PCB, and the addition 2 x M3 bolts supplied with the kit.

Connect the PoE Internal Data harness between the PoE module and the primary comms port of the Terminal PCB.

Connect the PoE Internal Power harness between the PoE module and the PWR port of the Terminal PCB. Connect the BTD-1 power lead to the PoE board.

Insert the PoE Internal Ethernet Harness through the Data port on the base of the BTD-1. Fasten using a 17mm spanner. Connect the PoE Internal Ethernet Harness to the PoE board.



The PoE module has now been fitted. To complete the installation, reinstall the BTU-1 cover. Ensure the wing nut is fully removed before sliding the cover back over the BTU-1 and tightening the M3 bolts. Re-insert the wing nut.

Refer to the PoE User Manual for operation.

WARRANTY

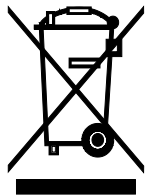
The manufacturer is required to respond to the "factory warranty" only in those cases provided by the Consumer Rights Act 2015. Each instrument is sold after rigorous inspections; if any manufacturing defect is found, it is necessary to contact the distributor where the instrument was purchased from. 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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