QUICK START GUIDE: QPD-1-PMW

Rev A

Installation Guide

This guide provides the most important information for the QPD-1 and its installation.

Actisense recommends users visit the QPD-1 product page, **www.actisense.com/QPD-1**, for the latest user manual, software and resources.

Notices

The **Actisense** QPD-1 (and its variants) are intended for use below deck in a marine environment. It may be considered misuse under the seller's guarantee if the unit is to be used in a more severe environment.

The products and specifications described in this guide may be changed without prior notice. To obtain the latest information visit **www.actisense.com.**

Active Research Limited will not be liable for infringement of copyright, industrial property right, or other rights of a third party caused by the use of information or drawings described in this guide.

The QPD-1 must be used in accordance with the manufacturers instructions. **Active Research Limited** will not be held responsible for any damage or injury, direct or otherwise, as a result of failure to adhere to these instructions.

Any connection to a battery or power supply needs to meet the regulations of that particular Country's regulatory authority.

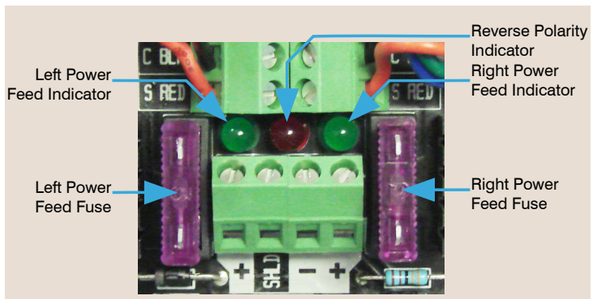
Specifications

Rated Current	4 A Max each feed (when suitable fuses are fitted)
Fuse Rating	3 A each feed (fitted as standard)
Fuses	ATO automotive blade
Clamping range M16 Gland	4.5 to 10 mm
Power Indicator	1 x green LED each feed
Reverse Power Indicator	1 x red LED
Certifications	NMEA 2000 IP67 (when fully installed)

Status LED's

Three status LED's are provided to help diagnose the QPD-1 connections. A green 'fuse status' LED for each power feed, indicates that power is being supplied to each backbone connection. A single red 'reverse polarity warning' LED, indicates when either of the power feeds have been connected in reverse.

Feature Layout



Connecting the backbone

Only use NMEA 2000 certified cable and Micro connectors to connect to the QPD-1. Attach the Micro connectors of the NMEA 2000 bus to the QPD-1 and securely tighten. Do not over tighten, as this may cause the connector to rotate in the housing. Ensure that the fuses are rated to a lower amperage than the cable can carry.

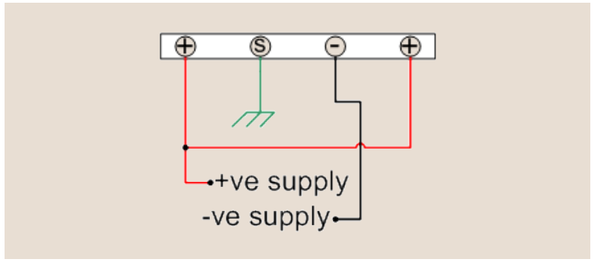
Powering the QPD-1

The QPD-1-PMW draws its power from either of the power feed connections.

Powering the backbone

Feed the cable through the gland and tighten to prevent water ingress and to provide strain relief. Screw the wires to the relevant terminal of the QPD-1, see **'Supply Connection Diagram'**.
Use the **'SHLD'** terminal of the QPD-1 to connect the NMEA 2000 bus shield to ground. The NMEA 2000 bus should only be grounded at a single location. This needs to be the RF system ground if available or at the main -ve supply feed location if not.

Supply Connection Diagram



Connecting a single power supply

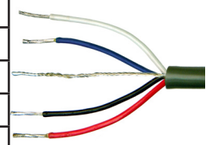
Connect the positive supply to both **'+'** terminals of the QPD-1.
Connect the negative supply to the **'-'** terminal of the QPD-1.

Connecting multiple power supplies

The QPD-1 can be used to connect multiple isolated supplies to power multiple backbone sections. See the 'User Manual for details of connecting multiple supplies.

NMEA 2000 Connection Table

QPD-1 Connector	NMEA 2000 Name	NMEA 2000 Connector	NMEA 2000 Wire Colour
H WHT	NET-H	Pin 4	White
L BLU	NET-L	Pin 5	Blue
Shield	Shield	Pin 1	Bare
C BLK	NET-C	Pin 3	Black
S RED	NET-S	Pin 2	Red



Trouble Shooting

If the Actisense QPD-1 does not perform as expected please refer to the trouble shooting section of the 'User Manual'.

Guarantee

The QPD-1 comes with a 1 year 'return to base' guarantee. If you suspect the unit is faulty please refer to the 'Returns Procedure' section of the 'User Manual'.

Product Registration

Please register your product for an extended 3 year guarantee at **www.actisense.com/ProductRegistration**.

Company Information

Active Research Limited
5, Wessex Trade Centre
Ringwood Road
Poole, Dorset
UK, BH12 3PF

Telephone: +44 (0) 1202 746682

E-mail: **support@actisense.com**
Website: **www.actisense.com**

Twitter: **www.twitter.com/ActisenseTech**
(**Actisense** Product Updates)