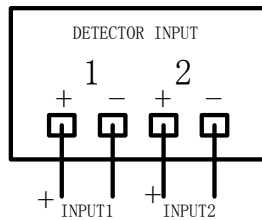


8. Input dry contact terminals on PSEMD

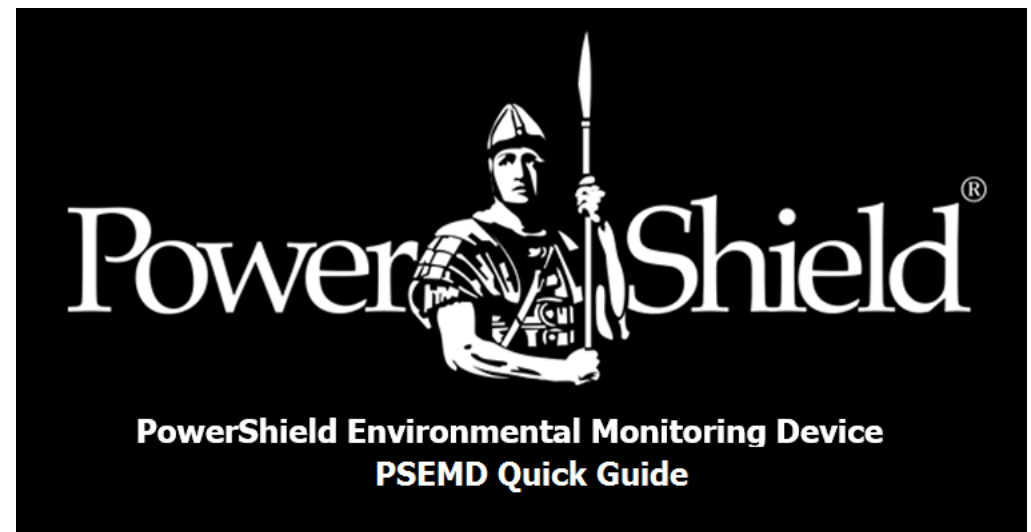


Input signal specification

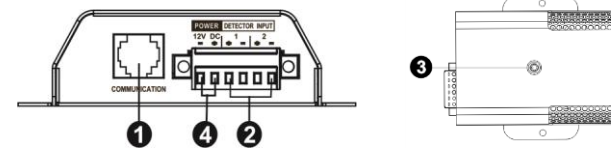
Input voltage	Maximum	Minimum
	12V	5V

For more information please visit

<http://powershield.com.au>



1. Product Overview - PSEMD



- ❶ Communication port
- ❷ Input dry contact terminal
- ❸ Device status indicator
- ❹ DC input connector

2. Introduction

The PowerShield Environmental Monitoring Device (PSEMD) is a connectivity device for remote monitoring of temperature and humidity via SNMP. It also provides two input dry contacts to receive signals from up to 2 compatible devices such as a security system and an alarm system.

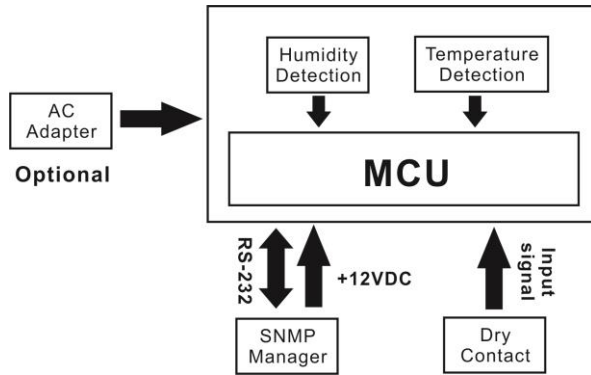
- Simple installation with SNMP card
- Monitor temperature and humidity
- Allows for two contact closure signals for user-defined usage
- Measure temperatures between 0 to 100°C with an accuracy of $\pm 1.5^\circ\text{C}$
- Measure relative humidity between 10 to 90% RH with an accuracy of $\pm 3\%$



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3. PSEMD Functional Diagram



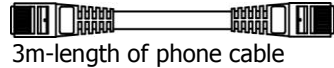
4. Installation Inspection

Before installation, please inspect the unit and ensure all items inside the package are undamaged. The following items are included:



Cable spec: UL2835 24AWG*4PAIRS+AEB

Plug Type: 4PCC 3U*2PCS



Pre-installation

Please ensure the UPS is installed along with an SNMP card before connecting the cable to the PSEMD, PowerShield environmental monitor device.

Wall-mounting PSEMD

Step 1: Use a vertical rule and measure off a length of line 82 mm and mark the two ends on the wall. (See **chart 1**)

Step 2: Drill screw holes through the two marks.

Step 3: Mount the unit by positioning the key-hole slots over the screw holes and secure with screws. (See **chart 2**)

Connecting to power

When connecting the PSEMD to SNMP card, power is automatically provided via the serial cable from SNMP card. Alternatively, please follow Chart 3 to connect an external 12VDC power source.

NOTE: To guarantee safety operation, please use the appropriate DC wire with UL2468 #24AWG spec.

Chart 1

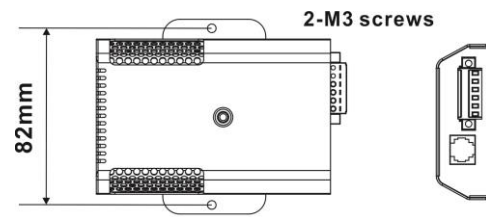


Chart 2

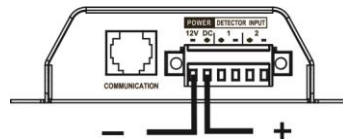
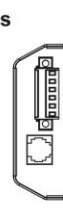


Chart 3

5. SNMP Connection

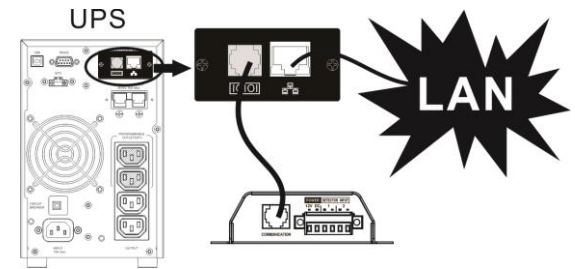
Connect the supplied network cable from the communication port on the PSEMD environmental monitoring device to the RS-232 port of the SNMP card. Use another network cable to connect from RJ45 port of SNMP card to LAN. (Refer to **chart 4**)

NOTE: If supplied network cable is not long enough for your application, you may substitute another longer cable (do not exceed 15m)

Operation

After making the connection, the PSEMD green LED will light up and the unit will start to operate.

Chart 4



6. Trouble Shooting

Problem	Possible Cause	Solutions
It displays 0 in the environmental information section of SNMP software.	SNMP card is not connected well.	Make sure SNMP card is firmly connected in the UPS.
	Network cable or DC input connection is not connected well.	Make sure network cable is connected well and DC input connection is good.
LED is not lighting or LED is flashing.	Input power is not stable.	Check if DC input is connected firmly. If the problem persists, please contact local dealer.
Temperature or humidity accuracy is out of range.	Temperature or humidity sensor is broken.	Please contact local dealer directly.

7. Specification of Environmental Monitoring Device

Model	EMD
Nominal DC input	12VDC
DC input current	0.5 A min.
Temperature measurement range	0 ~ 100°C
Temperature measurement accuracy	±1.5°C
Humidity measurement range	10% ~ 90% RH
Humidity measurement accuracy	±3%
Communication	RS232 with ASCII protocol
Acceptable cable length	15 m
Dimension (DxWxH) mm	116 x 90 x 27
Net weight	200g