

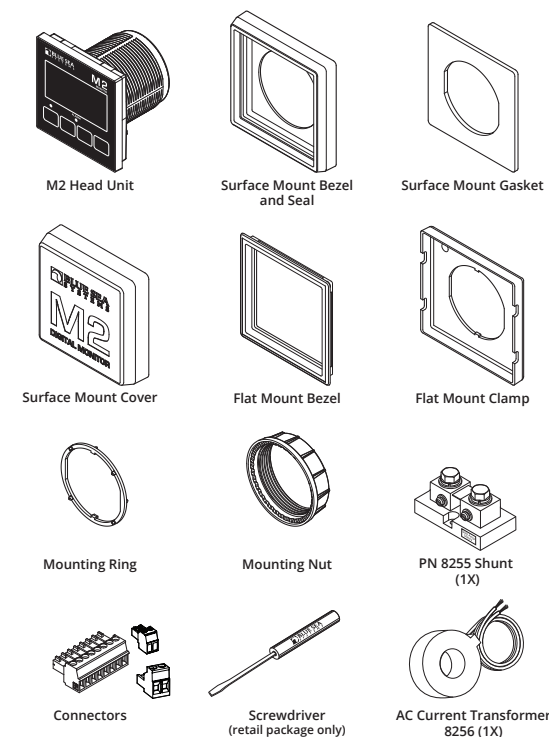


M2 OLED Digital Monitor

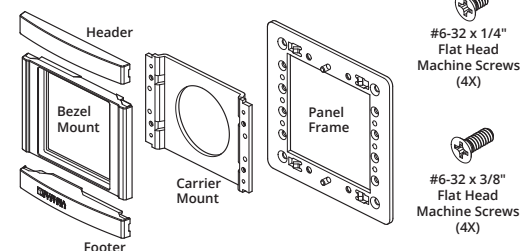
QuickStart Installation Guide

1850 Vessel Systems Monitor

Components Included



360 Panel Mounting Kit 1525 (sold separately)



blueseasystems.com/products/1850

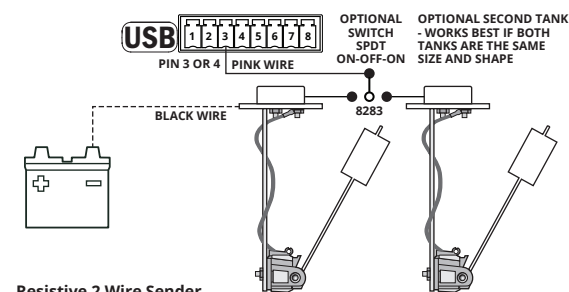
Connector Pin Assignment

USB	Micro-USB
M5	NMEA 2000
A. 2 Pin Connector* 3.5mm	Function
1	Battery 1-
2	Battery 1+
B. 2 Pin Connector** 5mm	
1	AC Voltage - Neutral
2	AC Voltage - Hot
C. 8 Pin Connector* 3.5mm	
1 Required Connection	DC Negative
2 Required Connection	DC Supply/Battery 2+
3	Tank/Bilge 1
4	Tank/Bilge 2
5	DC Shunt 1-
6	DC Shunt 1+
7	AC Current Transformer - ***
8	AC Current Transformer + ***

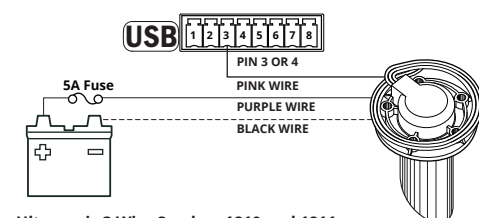
* Supports wire sizes from 16 to 26 AWG

** Supports wire sizes from 12 to 24 AWG

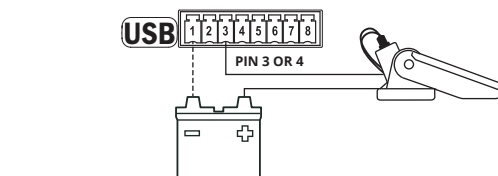
*** Caution - Incorrect connections may damage the monitor



Resistive 2 Wire Sender

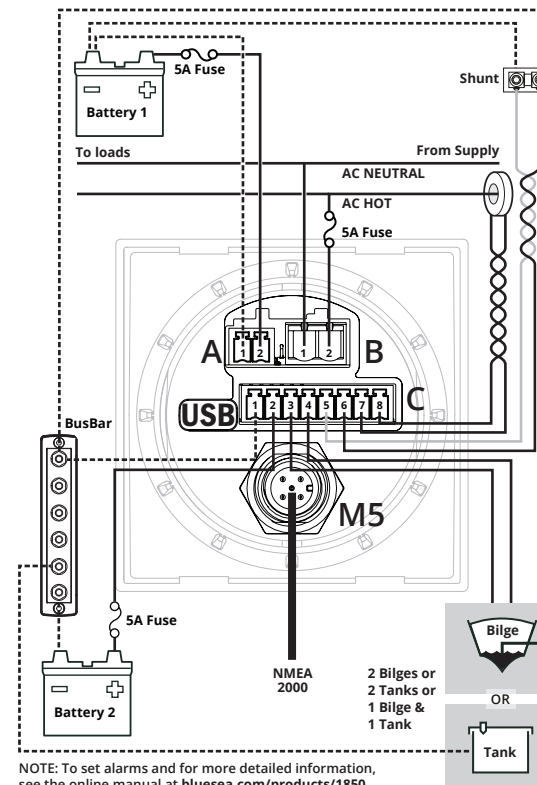


Ultrasonic 3 Wire Senders 1810 and 1811



Float Switch Connections

System Overview



NOTE: To set alarms and for more detailed information, see the online manual at blueseasystems.com/products/1850



✓ If you are not knowledgeable about electrical systems, have an electrical professional install this unit. The diagrams in these instructions pertain to the installation of the unit and not to the overall wiring of the vessel.

✓ Verify that all AC sources are disconnected before connecting or disconnecting the Current Transformer (CT). Failure to do so will generate lethal voltages on the CT.

✓ If an inverter is installed on the vessel, its power leads must be disconnected at the battery before the unit is installed. Many inverters have a "sleep mode" in which their voltage potential may not be detectable with measuring equipment.

✓ If an AC generator is installed on the vessel, it must be stopped and rendered inoperable before the unit is installed.

✓ Verify that no other DC or AC sources are connected to the vessel's wiring before installing the unit.

✓ If the unit must be removed, connect the CT leads together before restoring power to the AC system.



✓ The back of the unit is not waterproof. Do not install where the back of the monitor is exposed to water.

Installation Steps

1. Choose meter mounting style and location
2. Turn off all power, both AC and DC.
3. Prepare mounting hole using cutout templates
4. Using wiring diagram:
 - Install provided 500A/50mV Shunt for DC current and SoC monitoring
 - Install provided 150A/50mA Current Transformer for AC current monitoring.
 - Make all connections to the meter's connector. Do not put fuses into fuse holders at this time.
5. Plug wired terminal block into the meter
6. Insert fuses into fuse holders, making the fuse to Pin C2 (DC Supply/Battery 2+) Last.
7. Turn on Power.

Basic Meter Setup

1. Ensure Battery 1 (House Battery) is fully charged
2. Have Battery 1 information ready
 - a. Battery Bank Nominal Voltage
 - b. Battery Type
 - c. Battery Capacity
3. Navigate to DC 1 Setup by going Menu>Setup>DC1 Setup.
4. Enter information for Battery 1 from step 2
5. Select Set SoC to Full. This resets the meter SoC to 99%.
6. AC Monitoring requires no setup if using the included 150A/50mA CT.
7. For instructions on setting Alarms, calibrating tank senders, or setting up Bilge monitoring see the full instructions found on our website. blueseasystems.com/products/1850



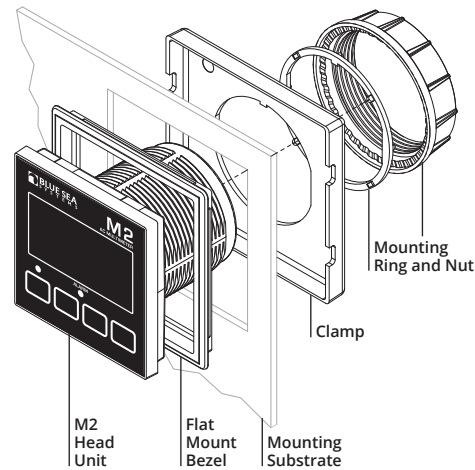
Click here for more information at blueseasystems.com/products/1850



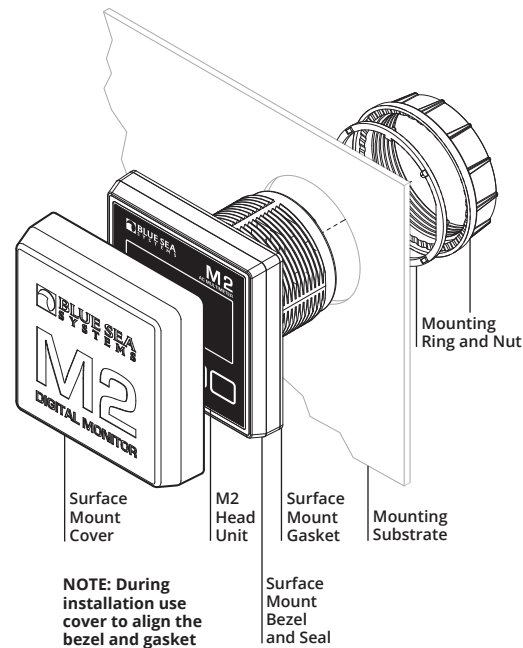
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Mounting Options

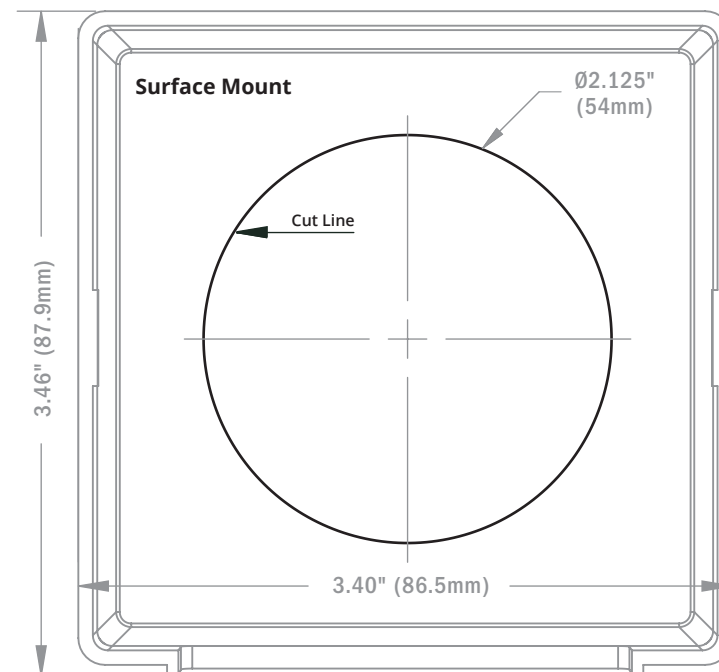
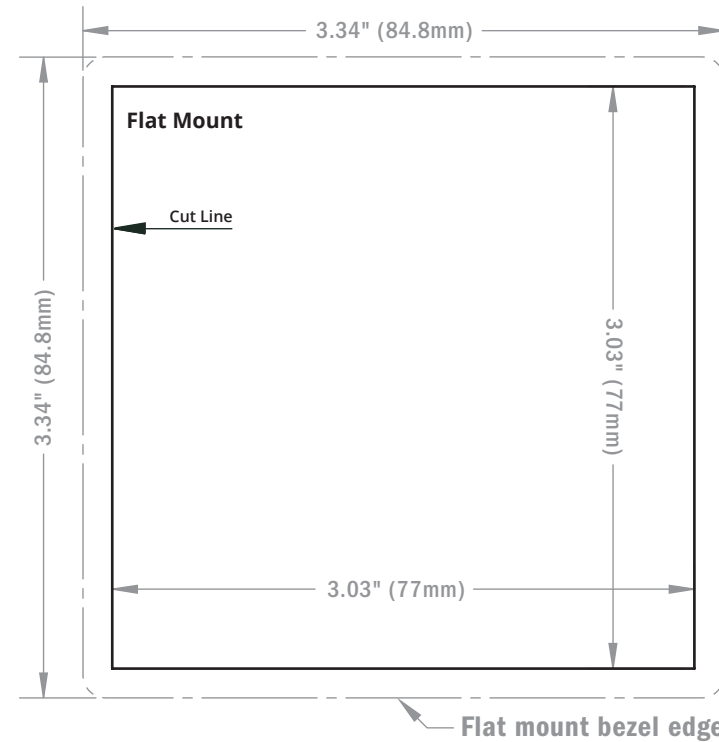
Flat Mount



Surface Mount



Mounting Templates



Network Configuration

With CZone®

Select: Menu->Setup->Network.

Two settings must be configured:

1. **Dip Switch** - Set this value to the same value in the CZone configuration too.
2. **CZone** - Set to enable. The meter will reboot.

Without CZone®

For non-CZone systems, the user will have to enter NMEA 2000 instance information for DC1, DC2, AC1, and the Tanks (if used). The user should configure the instance information before connecting to the N2K network to prevent conflicts.

For more information regarding setting up the N2K connection, see the full instructions found at our website: blueseasystems.com/products/1850.



Warranty

The M2 OLED Digital Meters come with a 5 year manufacturer's warranty. This means the meter is warranted to be free from defects in materials or workmanship for 5 years from the date of first purchase. The warranty is limited solely to the cost of repair or replacement of the M2 Meter product. Costs associated with labor or shipping of the defective parts are not covered. Blue Sea Systems cannot accept liability for damage due to the misuse of the M2 Meter.