Installation

Warning
It is not possible within the scope of these instructions to fully acquaint the installer with all the knowledge of electrical systems that may be necessary to correctly install this product. If the installer is not knowledgeable in electrical systems we recommend that an electrical professional be retained to make the installation.

1. Disconnect all AC and DC power
Disconnect all AC power originating on or off the vessel. This includes inverters, generators, shore power attachments and any other device capable of supplying AC power to the ship’s circuits. Disconnect the main positive DC cable from all batteries to eliminate the possibility of a short circuit and to disable the inverter while installing the meter.

Guarantee
Any Blue Sea Systems product with which a customer is not satisfied may be returned for a refund or replacement at any time.

Installation (continued)

2. Select mounting location and cut opening
Select a mounting location which is protected from water on the meter front and back and is not in an area where flammable vapors from propane, gasoline or lead acid batteries accumulate. The meter is not ignition protected and may ignite such vapors. There are two mounting methods for the meters, surface mount or panel mount.

Surface Mount: Drill five clearance holes as shown below. The part number of the meter will determine the size and location of the clearance holes. Use the nuts and washers supplied in the accessory package to secure the four mounting studs to the mounting surface. This method will work on mounting surfaces up to 5/8” thick.

Panel Mount: For thicker mounting surfaces, the meter can be mounted into a 0.125” thick panel. Blue Sea Systems offers meter mounting panels for our standard size meters only. Use PN 8013 to mount a single meter or PN 8014 to mount two meters.
3. AC Meter Terminals
There are two terminals on the back of the meter marked “+” and “-”. On DC meters these markings refer to positive and negative. On AC meters these markings can be disregarded. Functionally it will not matter to which terminal the coil wires are connected.

4. Install Ammeter Coil
Route the AC hot lead to be measured through the center of the sensing coil. Connect the sensing coil wires to the meter. Secure the sensing coil to the hot lead to prevent it from moving. If needed, the sensing coil wires may be lengthened up to 50 feet (15.24m) using 16 AWG wire.

5. Calibration
The ammeter is calibrated at the factory and recalibration should never be necessary. However, if adjustment does become necessary the needle may be reset to the zero mark.

In the center of the black area on the meter front is an adjustment screw. This screw activates a small cam that deflects the meter needle slightly to adjust the needle position.

Using a small screw driver, turn the screw no more than 90 degrees right or left, as necessary. DO NOT ROTATE THE ADJUSTMENT SCREW THROUGH 360 DEGREES.