The WARNING symbol refers to possible injury to the user or significant damage to the meter if the user does not follow the procedures.

The CAUTION symbol refers to restrictions and rules with regard to preventing damage.

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 VSM 422 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 meter 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 meter is exposed to water.

This information is also available in the VSM 422 Installation and Configuration Manual.

IMPORTANT! The Sensing Description section of this manual gives important details to the location of sensors in the AC and DC electrical systems of the boat. Improper location and configuration of sensors can result in erroneous readings and possible damage to components.

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Surface Mount

1. Cut out Surface Mount Template and copy to surface.

2. Drill pilot holes for 4 (6-32 x 1") Pan Head Tapping Screws. Drill a 2.125" (53.975mm) Ø Dia. Head Unit hole.

3. Place gasket on Head Unit and attach unit with 4 (6-32 x 1") Pan Head Tapping Screws.

4. Carefully snap on notched surface mount bezel using raised notch for positioning.

Flat Panel Mount

1. Place Head Unit behind panel, aligning mounting holes on panel with inner 4 holes (2 on each side of the unit). Attach with 4 (6-32 x 1") Flat Head Machine Screws, threading into Head Unit brass inserts.

2. Place the 360 bezel onto the 360 panel with flat wedge up.

3. Fasten the bezel with 4 (6-32 x 1.125") Flat Head Machine Screws through the back of the Head Unit and threading into the brass inserts in the back of the bezel.

4. Snap header and footer into mounting clips and post.

360 Panel Mounting Kit (PN 1325 sold separately)

NOTE: 360 Panel mounting requires 360 Panel Mounting Kit PN 1325 (sold separately).

NOTE: The VSM 422 is designed for flat panel mounting in panels 1/16" (1.5mm)−1/8" (3mm) thick. Flat panel mounting requires precision cutting. CNC routing highly recommended.

Components Included*

- Head Unit
- PN 8255 Shunt
- Surface Mount Bezel
- AC Current Transformer
- Battery Temperature Sensor
- Connectors
- PN 8256 Shunt
- Pan Head Tapping Screws for Surface Mount
- Surface Mount Gasket
- PN 1820 Battery Temperature Sensor
- Flat Head Machine Screws for Flat Panel Mount
- Mounting clips
- Header
- Footer
- Mounting post
- #6-32 x 1.125" Flat Head Machine Screws
- #6-32 x 1" Flat Head Machine Screws

Installation and Configuration Manual also included

Ultrasonic Tank Sensors (sold separately)

- PN 1811
- PN 1810
- Gasoline
- Diesel, Water, and Waste

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