**VSM 422 Ultrasonic Tank Sender**

**Features**
- **Accurate**—can be precisely calibrated for each tank
- **Reliable**—no moving parts that can wear and cause intermittent or complete signal loss
- **Digital filtering**—eliminates errors due to liquids sloshing in mobile tanks

**Specifications**
- **Electrical Interface:** Three Wires
- **Supply Voltage:** 10–32 Volts DC
- **Maximum Depth (PN 1810):** 32.00” (812.8mm)
- **Maximum Depth (PN 1811):** 24.00” (609.6mm)
- **Distance Accuracy:** +/- 0.125” (3.81mm)
- **Maximum Dead Band—top only:** 2.00” (50.8mm)

**Mounting**

**Warning**
- 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 Ultrasonic Tank Senders and not to the overall wiring of the vessel.
- Ensure that gasoline tanks are completely empty and free of any vapors before beginning installation.
- For safe installation, turn off battery switch feeding the sender circuit. Alternatively remove branch circuit fuse or remove the negative battery cable. Alternatively remove branch circuit fuse feeding the sender circuit.

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

**Regulatory**
Ignition protected and tested to ABYC H-24 for fuel system components

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**Installation**

Blue Sea Systems VSM 422 Ultrasonic Tank Sender PN 1810 is used for water, waste, and diesel fuel tanks. Blue Sea Systems VSM 422 Ultrasonic Tank Sender PN 1811 is used for gasoline tanks.

When connecting the tank senders to ground, it is important to connect them as directly as possible to the main negative bus. Do not ground directly to the fuel tank. This will prevent high loads such as battery chargers from affecting the tank readings.

The Blue Sea Systems VSM 422 Ultrasonic Tank Senders require an external power source. When power to the sender is lost, the VSM 422 will read the tank as full, and may trigger the tank’s high level alarm.

**Reference**

Other Innovative Products from Blue Sea Systems
- 360 Panel System
- Battery management panels and switches
- AC and DC circuit protection devices
- WeatherDeck™ waterproof circuit breaker and fuse panels
- Fuses and fuse blocks
- BusBars and connectors
- Analog and digital meters