

IMPORTANT INFORMATION

- The vent tube opening must be kept in a clean and dry environment. Run the level sensor cable all the way to the control panel. Ensure proper sealing of conduits as to prevent gases and moisture from entering the control panel. Do not terminate in the wet well, even in a junction box.
- Do NOT bend cable to a radius smaller than 1.5 inches (38mm) to avoid kinking the vent tube.
- Do NOT press against the sensor diaphragm.
- Do NOT support sensor by the cable.
- Do NOT splice cable.

SPECIFICATIONS

- Measuring Range:
 - CL40 - sensing range up to 40 inches (101.6 cm)
 - CL100 - sensing range up to 100 inches (254 cm)
- Accuracy: 5% Full Scale
- Operating Temp: 32-122°F (0-50°C)
- Output: Variable Frequency Signal
- Input Power: 12 VDC 100 mA max.
- IP Rating: IP 68 for permanent submersion
- Wetted Materials:
 - Sensor Housing: PVC, 2.00" diameter x 5.35" length (51mm x 136mm)
 - Diaphragm: VITON®, 1.25" diameter (32mm)
 - Cable: TPE, 22 AWG - 3 conductor shielded with vent tube
 - Hose Clamp: 18-8 stainless steel

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C-Level™ Sensor

Installation Instructions



APPLICATIONS

Continuous level measurement in sewage and effluent lift stations, stormwater pump stations, non-potable water systems, tanks, wet wells, and reservoirs.

WARNING



ELECTRICAL SHOCK HAZARD

Disconnect power before installing or servicing this product. A qualified service person must install and service this product according to applicable electrical and plumbing codes.

WARNING



EXPLOSION OR FIRE HAZARD

Do not use with flammable liquids. Install in accordance with ANSI/NFPA 70. Suitable for usage with intrinsically safe circuit extensions as defined by UL 698A.

Failure to follow these precautions could result in serious injury or death. Replace product immediately if cable becomes damaged or severed. This product must be installed in accordance with National Electric Code, ANSI/NFPA 70 so as to prevent moisture from entering or accumulating within boxes, conduit bodies, fittings, or cable. Keep these instructions after installation.

SJE RHOMBUS® TWO-YEAR LIMITED WARRANTY

Two-Year Limited Warranty.

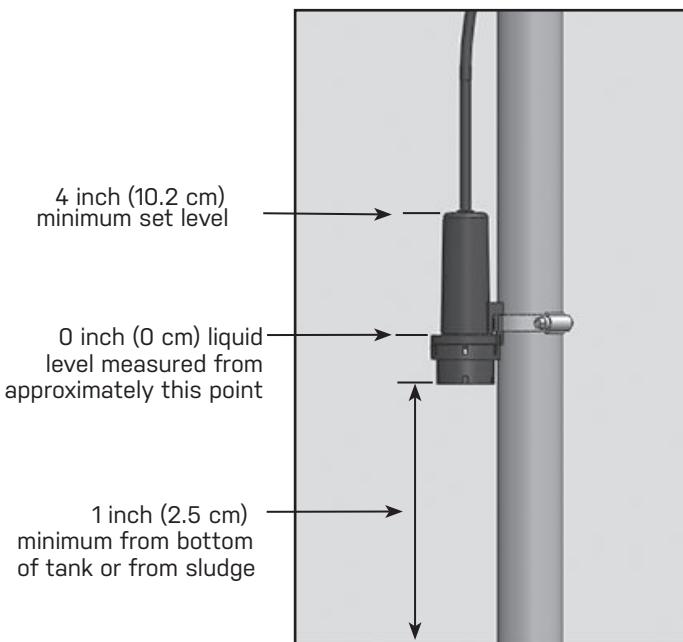
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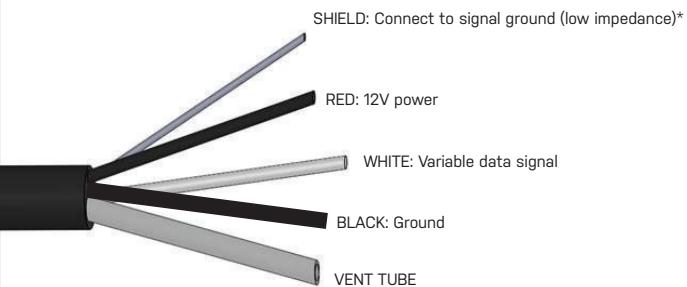
1 Determine the submergence depth and operating level ranges.

⚠ WARNING: To prevent erroneous measurements, do not allow the sensor diaphragm to come into contact with solid objects or sludge. Do not use level measurements less than 4" (10.2 cm) for control or alarm purposes (dead band).



3 Terminate sensor cable in the control panel, connect wires to proper terminals as shown on the control panel schematic.

Caution: If the level sensor wires are not connected properly, the C-Level™ signal output will not be correct. Level sensor and float cables need to run in separate conduit from pump and power cables.



* If noise is observed in the frequency response, unplug the shield connection.

2 Position sensor at appropriate location on pipe and secure sensor using provided hose clamp.

Caution: Do not overtighten clamp or tie straps.

⚠ WARNING: DO NOT support sensor by the cable.

⚠ WARNING: DO NOT kink or place cable under hose clamp. Doing so may cause sensor to fail.



4 Functionally test the level measurement and ensure proper operation of the system by filling the tank.

