

CS02 SERIES

CAPACITANCE TRANSMITTER CONTINUOUS OUTPUT LEVEL TRANSMITTER

DESCRIPTION

The CS02 Capacitance Transmitter is designed to detect the fluid levels of liquids within a variety of applications. The CS02 eliminates the need for an input voltage jumper, enabling the user to change the power supply within a factory-set 9 to 45 VDC range. Output signals are available in 4-20 mA, 0-5 VDC or 1-5 VDC. All models are equipped with durable, die-cast aluminum enclosures and 316 stainless steel sensing probes. A variety of mounting sizes and probe lengths are made to order. Optional internal sheath materials include PVDF, PFA or PEEK.

PRINCIPLE OF OPERATION

The metal probe rod and outer shield act as conductive plates that encompass the dielectric media within a tank. As the electric current passes from one plate to the next, the control board within the junction box serves as a transmitter. The PCB accepts input from the probe and relays an output signal. The measured output dictates the media level within the tank.

KEY FEATURES

- Two-Part Assembly: Transmitter & Probe
- Advanced Operation & Tuning Modes
- CE & UL-Approved
- LED Power Indication Light
- One-Digit LED Display Mode Indicator
- No Calibration Required & No Moving Parts
- Intrinsically-Safe & General Purpose Wiring
- Sensitivity Adjustment

ENVIRONMENTAL

- Process Temperature:
Integral Electronics:
-20 to +185 °F (-29 to +85 °C) **Remote Electronics:**
-20 to +482 °F (-29 to +250 °C)
- Process Pressure: 500 PSIG (34.5 bar)

ELECTRICAL

- Input: 9 to 45 VDC
- Output: 4-20 mA, 0-5 VDC or 1-5 VDC
- Response Time: < 1 Second (Average)
- Repeatability: +96%
- Linearity: 0.50%
- Resolution: 1024 pt. Over Span (Default)

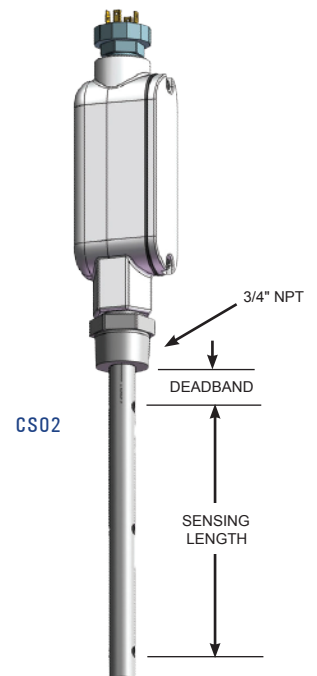
APPLICATIONS

-  Water & Wastewater
-  Ink Trays
-  Chemical Processing
-  Storage Tanks
-  Petroleum Products
-  Refrigeration Systems



CS02

DIMENSIONS



CS02

