

# 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. High temperature/pressure probe also available.

### 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
- High Temperature/Pressure Probe Option


### ENVIRONMENTAL

- Process Temperature:  
**Integral Electronics:**  
-20° to +185° F (-29° to +85° C)  
**Remote Electronics:**  
-20° to +482° F (-29° to +250° C)  
**Optional Probe:**  
-20° to +1,000° F (-29° to +537.8° C)
- Process Pressure: 500 PSIG (34.5 bar)  
**Optional Probe:** 5,000 PSIG (344.7 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)

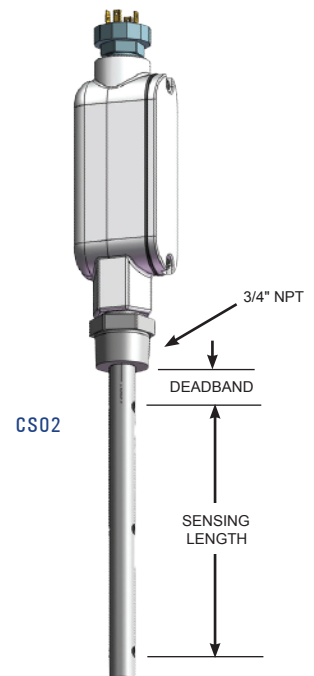
### APPLICATIONS

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



CS02

### DIMENSIONS



CS02

