



CS02

Key Features

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

Environmental

- Process Temperature:
-20° to +185° F (-29° to +85° C)
- Process Pressure:
500 PSIG (51.7 bar)

Description

The CS02 Capacitance Transmitter is designed to detect the fluid levels of liquids within a variety of applications. The CS02 operates from 9 to 45 VDC. Output signals are available in 4-20 mA, 0-5 VDC, or 1-5 VDC, depending on the application. All models are equipped with durable, die-cast aluminum enclosures and 316 stainless steel probes. A variety of mounting sizes and probe lengths are made to order. *Optional Internal Sheath Materials:* Kynar, 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.

Electrical

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

Applications

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

