

PS INSTRUMENTS

FLOW • LEVEL • MEASUREMENT

An ISO 9001:2015 Certified Company

**Engineered for Precision.
Built for Performance**



CAPACITANCE TYPE LEVEL TRANSMITTER

P S Instruments is a specialty-level measurement company that provides high-quality progressive capacitance and two-wire continuous-level transmitters.



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PRINCIPLE OF OPERATION

P S Instruments is a specialty-level measurement company that provides high-quality progressive capacitance and two-wire continuous-level transmitters.

Our products are created to be accurate, durable and capable of withstanding all kinds of industry challenges. P S Instruments, India's topmost [Capacitance Level Transmitter](#), Two-Wire Capacitance Continuous Level Transmitter Manufacturer and supplier. Here, we offer a Capacitance Level Transmitter, a Two-Wire Capacitance Continuous Level Transmitter, at a very low price.

What is a Capacitance Level Transmitter?

Capacitance type level measurement are based on the physical properties of a capacitor. Capacitance of a capacitor formed by two parallel plate electrodes is

1. Directly proportional to area "A" of the electrode.
2. Inversely proportional to distance 'd' between the plates &
3. Directly proportional to die-electric ' δ ' positioned in between them.

$$C = \delta A / d$$

The probe of the level sensor forms an electrical capacitor with the surrounding metal container wall when the vessel empty an initial capacitance exists between the electrode level sensor & the metal wall. When the sensor is covered with liquid the value of this capacitor increases and the capacitance change is measured and converted into an output signal proportional to the capacitance change.

Depending on the application is requirement, a part or fully insulated flexible or solid rod probe is selected. The probe head contains the electric capacitance and current transducer.

Advantages of a Two-Wire Configuration Continuous Level Transmitter.

Simplified Wiring	: Reduces connection complexity and installation time.
Enhanced Signal Integrity	: Ensures robust signal transmission over long distances.
Improved Safety	: Minimizes disturbances or electrical current fluctuations in high-density applications.
Cost-Effective	: Lower installation and maintenance costs compared to other models.





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Industrial Applications for Two-Wire Configuration Continuous Level Transmitter:

Oil & Gas	: Accurate monitoring of fuel, lubricants, and other critical fluids.
Chemical Processing	: Reliable level measurement in aggressive chemical environments.
Food & Beverage	: Ensures consistent ingredient quality and process control.
Water & Wastewater Treatment	: Precise monitoring of water levels and sludge.
Pharmaceutical Manufacturing	: Delivers exact measurements for critical production processes.

The System consists of 2 units

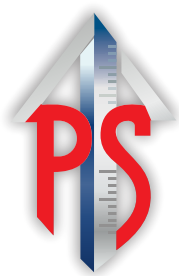
- **Indicator** :- Mounted where Indication is require 4-DIGIT, 7-SEGMENT LED
- **Prob Unit** :- Mounted on top of the tank.

These are used for conductive liquids.

Water, Effluent, Milk, Beer, Acids and Alkalis etc.

Technical Description

▪ Measuring Range	: 50 To 2000 mm rugged probe 2000 to 10000 mm flex probe
▪ Transmitter Type	: Loop powered 4 – 20 mA
▪ Supply Voltage	: 12 To 24 V Dc
▪ Out Put	: 4–20ma @ constant current load of 600 Ohms
▪ Pressure Rating	: 6 Kg / cm ²
▪ Temperature	: -20 To 100° C
▪ Enclosure	: Die cast Aluminum duly approved flame proof abs duly approved for ip 65/ 67
▪ Resolution	: 2 MM
▪ Accuracy	: +/- 0.25% FSR



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