CAPACITANCE LEVEL TRANSMITTER



ABOUT CPT

Capacitance level transmitter is a most reliable instrument where continuous level monitoring is required.

FEATURES

- Simple & rugged construction
- Easy mounting with threaded or tri-cover flange mountings
- Continuous level monitoring

CPT

- Available in rod & rope type sensor options
- Suitable for corrosive environment
- Suitable for granules
- Weatherproof
- Exproof

APPLICATION

- Chemical, petrochemical industry, refineries
- Pharmaceutical industry
- Pressure vessels, storage tanks
- Water & waste water treatment plants
- Viscous liquids, light slurries
- Cement, flour
- High temperature & high pressure liquids
- Hydrocarbons & solvents
- Food & beverage
- Powders & granules



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CONSTRUCTION & OPERATING PRINCIPLE

Capacitance level measurement systems take advantage of the dielectric constant in all materials to determine changes in level. A capacitor is no more than a pair of conductive electrodes, or plates, with fixed spacing and a dielectric (process material) between them.

In this system, the probe element(a metal rod or cable) serves as the active plate, while the process vessel serves as a ground plate. As the level rises, the air is displaced by material (liquid or solid) having a different dielectric constant. A change in the value of the capacitor takes place because the dielectric between the plates has changed. The advanced electronic circuit converts this into analogue output. This analog output is fed to electronic indicator to show the reading of 4-20 mA.



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