CAPACITANCE LEVEL TRANSMITTERS

DESCRIPTION :

Flowtel FLCLT-10 are capacitance type level transmitters. The probe is based on proerties of capacitor. Vessel wall & probe forms two electrodes. If vessel is of non conductive material, the probe will be double rod type. The distance between electrode & surface area of electrodes remain unchanged. The variable is the depth of the material being measured which represents the dielectric constant between two electrodes. Air & vacuum have relative dielectric constant as 1 & that of liquids, it is greater than 1. The capacitance of the capacitor the therefore depends on how much material lies between the probe & vessel wall i.e. whether the probe is covered with or free from material. The capacitor changes with change in level of the material & provides corresponding 4-20 mA DC continuous output.

TECHNICAL SPECIFICATIONS

Probe Length : As per requirement (max 3 mtr.)

> Type of Output : 4 to 20 mA DC, 2 wire

Accuracy : ±2% F.S.Linearity : ±2%

Process Temperature : 250°C max
Probe MOC : 30 kg/cm² max

Power Supply : SS 316 with Teflon coating

Power Consumption : 24 V DC, External

Response Time : < 6 VA</p>

➤ Temperature Coefficient : < 1000 mSec

Process Connections : Flame-proof, [P-65, IIA, IIB, CMRI Certified]

Mounting : Flanged/ Threaded

Operating Conditions : Top of the tank

Optional : Temperature 0 to 55°C / Humidity 5 to 95%

non condensing

Local Display : 8 x 1 LCD

