

CAPACITANCE LEVEL TRANSMITTER

SERIES FECTX-100

SALIENT FEATURES

- 1) 2 wire system
- 2) Continuous 4-20 mA DC output
- 3) Simple low cost & reliable
- 4) Trouble free operation for conductive / non conductive
- 5) Liquids, slurries
- 6) Flameproof IP-65, P-65, IIA IIB, CMRI Certificate housing

DESCRIPTION

Flowstar Series FECTX-100 are capacitance type level transmitters. The probe is based on properties 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 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/cm ² max
Power Supply	:	SS 316 with Teflon coating
Power Consumption	:	24 V DC, External
Response Time	:	< 6 VA
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

CODIFICATION OF FECTX-100

Code	Local Display
00	None
01	Required

Code	Process Connections
00	Flanged
01	Threaded

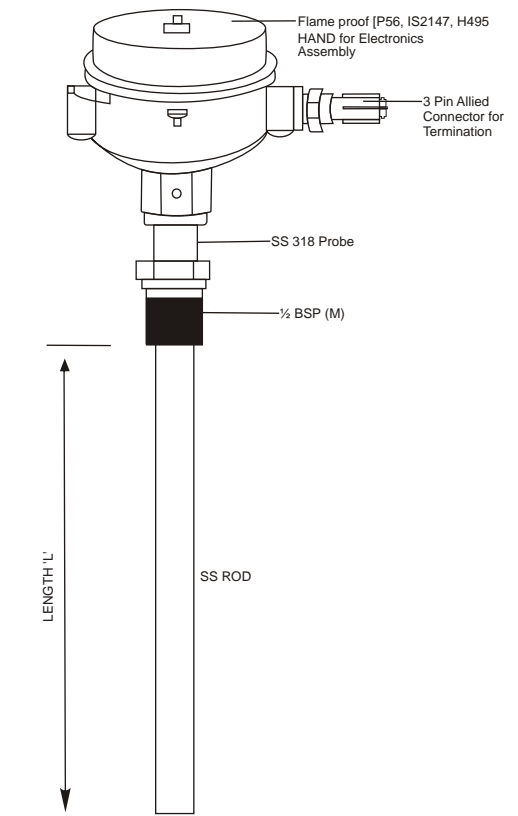
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SAMPLE ORDERING CODE

LEVEL TRANSMITTER



FECTX-100



ASSEMBLY VIEW