

Features

- High Accuracy Continuous Level Measurement
- 4–20 mA, 2-Wire Loop Powered Output
- Electronics Protection Class : Weatherproof IP 66
- Probe Lengths up to 3mtr.
- Trouble free operation of conductive / non conductive Liquids, slurries

Description

Electronet series LCT 01 are capacitance type level transmitters. 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

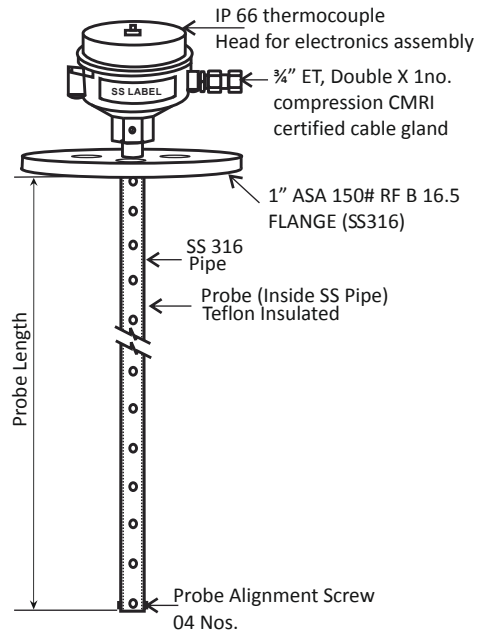
Probe Length	1) Upto 3 mtr.
Measuring Range	1) Single Rod (Upto 2000 mm)
	2) Coaxial (Upto 2000 mm)
	3) Rope Type (Above 2000 mm)
Type of Output	4 to 20 mA DC, 2 Wire
Accuracy	+/- 1% F. S.
Linearity	+/- 1%
Process Temperature	100°C max
Process Pressure	10 kg/cm ² max
Probe MOC	SS-316 + PTFE
Power Supply	1) 24 V DC (+/- 10%) 2) 24V DC Two Wire Loop Powered
Response Time	< 1000 mSec
Temperature Coefficient	+/- 0.01% per °C
Electronic Protection Class	Weather Proof IP-67 / Flameproof (CMRI IIA IIB Certified)
Process Connection	1) 1" BSP (M) 2) 1½" BSP (M) 3) 2" PVC Flanged
	4) 2" S S316 Flanged
Mounting	Top of the tank
Operating Conditions	Temperature 0 to 70°C / Humidity 5 to 95% non condensing at 25°C
Local Display	LCD Display

LCT 01

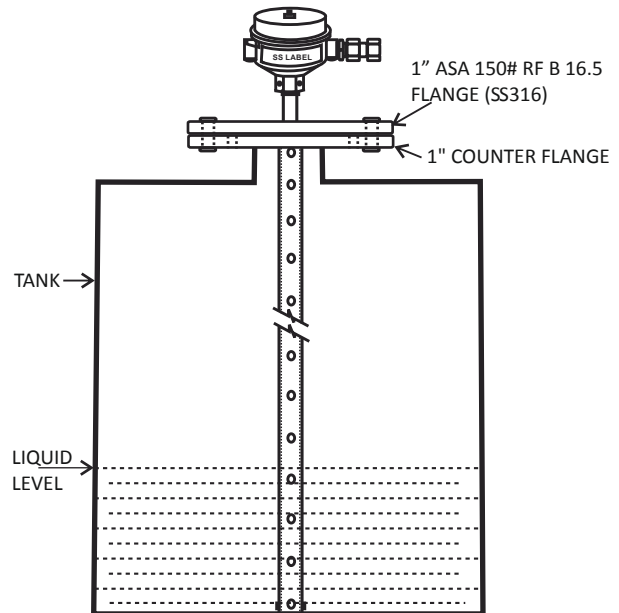
CAPACITANCE TYPE LEVEL TRANSMITTER



Assembly Overview



Installation Details



Ordering Information

Sample Order Code : LCT 01-A1-B1-C1-D1

Parameter		Code	Description
A	Measuring Range	A1	100 mm
		A2	1000 mm
		A3	2000 mm
		A4	3000 mm
		A5	6000 mm
		A6	12000 mm
		A7	15000 mm
B	Probe Type	B1	Single Rod (Upto 2000 mm)
		B2	Coaxial (Upto 2000 mm)
		B3	Rope Type (Above 2000 mm)

Parameter		Code	Description
C	Process Connection	C1	1" BSP (M)
		C2	1½"BSP (M)
		C3	2 " PVC Flanged
		C4	2 " SS-316 Flanged
D	Electrical Connection	D1	M20 (F)
		D2	½" NPT (F)
		DY	Other

Note :

- Due to our continuous product revisions, design specification and model numbers are subject to change without notice.
- Accuracy defined at Lab Conditions.
For other requirement please consult factory.
- This product is meant for laboratory/Process application only and not for custody transfer application.

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