

## Features

- Two Wire System
- 4-20mA DC Output
- Electronics Protection Class : Weatherproof IP 67
- 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

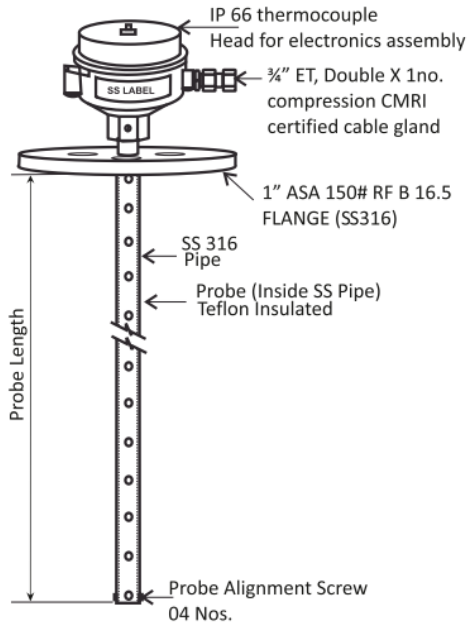
|                             |                                                                  |                |                   |
|-----------------------------|------------------------------------------------------------------|----------------|-------------------|
| Probe Length                | 1) Upto 15 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 <sup>2</sup> 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

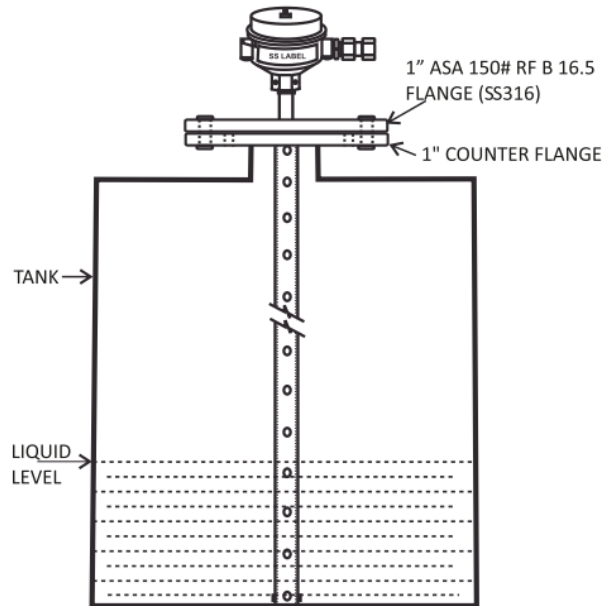
CAPACITANCE LEVEL TRANSMITTER



## 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.

## ELECTRONET EQUIPMENTS PVT. LTD.

### Registered Office:

Plot No. 84, 85, 86, Tiny Industrial Estate,  
Kondhwa Budruk,  
Pune-411 048, Maharashtra, India.

### Factory Address:

Plot No. 8, (SEZ) Phase 1, Kesurdi MIDC,  
Khandala, Dist.- Satara  
Pin: 412 801, Maharashtra, India.



+91-20-26931476  
+ 91 99229 31722  
+ 91 99224 42183



ho@electronet.co.in  
enquiries@electronet.co.in



www.eeplindia.com