

# Capacitance Level Transmitter with Digital Indicator

## INTRODUCTION

Capacitance Level Transmitter with digital indicator is a compact, low cost, level transmitter with 4-20 mA analogue out-put designed to measure the level of various liquids, and solids in tanks or storage vessels. Measuring range is 0.25 to 3 m for rod probe version. The probe forms an electrical capacitor with the surrounding metal contained wall, or with auxiliary reference probe. With the vessel empty, initial capacitances exists between the electrode & the metal well or the auxiliary reference probe. When the probe gets covered with material to be measured the capacitances will increase and the change will be measured and covered into an analogue (4-20 mA) output signal proportional to the change. ROD or FLEXIBLE ROPE can be used for various conductive or non-conductive Liquids.

## USAGE

### LIQUID APPLICATION

Acids, Acitone, Ammonia Benzene, Feed water, CTC, diesel, oils, fruit juice, milk, wine.

## PROBE SPECIFICATION CHART

- **Probe for Conductive Material :** Water based solutions. Acids, Bases etc. – only insulated probe are suggested.
- **Probe for Non-Conductive Material :** Mostly Petrochemical and solvents – Insulated or non insulated probes can be used.

## TECHNICAL SPECIFICATIONS

### DETAILS OF LEVEL TRANSMITTER :

<b>Probe Length /Measuring range</b>	:	0.25 to 3 m (Rod) 1 to 20 m (Rope)
<b>Measuring range / Process length</b>	:	As per application.
<b>Probe Material</b>	:	Stainless steel rod / Rope insulated partly or fully with PTFE
<b>Medium Temp</b>	:	-20° C to 100° C (Special Version up to 200° C)
<b>Electronics</b>	:	-25° C to +65° C
<b>Output</b>	:	4-20 mA dc (2 wire loop power)
<b>Supply voltage ( NOMINAL)</b>	:	12-30 V DC
<b>Mounting connection</b>	:	1/2" Standard for Rod probe, others as per request and application

### DETAILS OF LEVEL INDICATOR :

<b>Display</b>	:	7 segment LED 4 X 1 line (or, LCD)
<b>Mounting</b>	:	Panel mounted
<b>Dimensions</b>	:	96(W) X 96(H) X 100(D) mm or, 96(W) X 48(H) X 110(D) mm
<b>Power Supply</b>	:	230 V AC, 110 V AC or, 24 V DC (As per clients requirement)
<b>Input</b>	:	4 to 20 mA from Level Transmitter
<b>Output</b>	:	4 to 20 mA or, Relays (As per clients requirements)

Continuous efforts for product development may necessitate changes in these details without notice.



### Authorised Dealer



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