

CAPACITANCE TYPE LEVEL TRANSMITTER WITH CONTINUOUS LEVEL INDICATOR & ADJUSTABLE SWITCHING ALARM

INTRODUCTION

FITZER Capacitance Type Level Transmitter are successfully used in processing plants for Oil, Food, Water treatment, Diesel, Chemicals, etc. for continuous level indication in conductive or non-conductive liquids of homogenous composition having stable dielectric constant

SALIENT FEATURES

- The CLT - 900 series is designed to give **DEPENDABILITY, DURABILITY** and **STRENGTH** to withstand the rigours of continuous use in difficult environment.
- Level measurement is displayed on a built-in $2^{1/2}$ digit D.P.M. having 0.5 inch high digits for **BETTER VISIBILITY**. Standard output signal of 0/4-20 mA DC proportional to 0-100% level change available for remote indicators and recorders.
- 'In Situ' range selection and calibration possible from evaluation unit. Probe head accessibility not required.
- Measuring system has no **Moving Part** so suffers **NO MECHANICAL WEAR & TEAR** and hence is **MAINTENANCE FREE**.
- **ECONOMICAL** to **INSTALL**, since common 3 core cable used for interconnection.
- **FLAME PROOF MODELS** suitable for hazardous area, certified as per IS-2148 for group IIA & IIB available.

APPLICATION

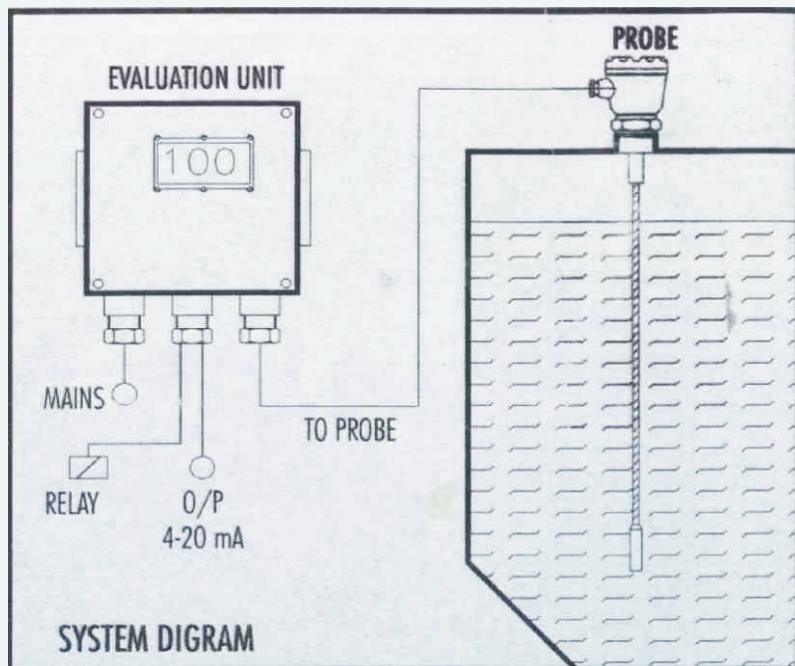
Suitable for continuous level measurement in conductive or non-conductive liquids, powdered or grained materials of homogenous composition having stable dielectric constant.



LEVEL CONTROL UNIT



FITZER / CLT - 900



Principle of operation :

The measuring electrode & container wall (or grounding probe) form a capacitor with the material as the dielectric. A change in material level in the container causes a change in capacitance. The Electronic Insert converts this change to a proportional DC which is transmitted via the Interconnecting cable to the evaluation unit wherein the signal after processing is displayed digitally.

TECHNICAL DATA :

EVALUATION UNIT

Housing:

Cable Entries:

Mains:

Power Consumption :

Initial Capacitance Adjustment

Indication:

Operating Temperature:

Utilizable Capacitance:

Variation

Cast aluminum, Weather proof Stoving enamel painted, suitable for back panel / wall mounting.

3 Nos. of 1/2" BSP

110 or 230 V AC (-15 to 10%) 50 Hz.

(To be specified while order ordering)

5 VA approx.

30 pf to 280 pf in two selectable ranges.

2 1/2 digit, 0.5 inch Red LED display

-20°C to + 60 °C

10 pf to 4500 pf in three selectable ranges.

OUTPUTS

Standard:Current :

Dimensions:

Weight:

-0/4 - 20 mA into R max 400Ω for remote indicators and recorders.

LHD 185 mm x 185 mm x 85 mm

2.3 Kg(approx)

ELECTRONIC INSERT (LDC 112)

Housing:

Supply:

Measuring Frequency:

Operating Temperature:

Plastic with electronics potted in epoxy resin.

20 V DC max. 10 mA

33 K Hz.(approx.)

-20°C to + 60°C

OTHER MODEL : ILC - 822

Same as our Standard Model with additional advantage of Two Point Switching.

Relay Output:

1 change over contact per set point rated at 6A, 230 V 50 Hz.
for non inductive load

Fail Safe Mode:

High or Low field selectable.

FITZER
INSTRUMENTS
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