

Capacitance Type Level Transmitter

Features:

- No moving parts, it is rugged and robust instrument.
- No dead band or dead zone like float based/ultrasonic instruments.
- Trim-Pots for span and zero adjustment.
- Plug and play with reference probe and rod.
Remote electronics as option with 2 Metre long coaxial cable.
- Standard enclosure weather proof-cast Aluminium or Nylon 66.
Flame proof as optional.
- Our new introduction is Micro processor based Blind Transmitter (available only in weather proof version) with Push Button Teach-in facility and damping arrangement.
- Suitable for operation from 12 to 32 VDC, with reverse polarity protection.
Standard output 4-20mA.Voltage output of 0-10 optional. (For 12 V input supply output 0-5V and with 24 V supply output 0-10V).



Application:

A capacitance is formed between the probe and the vessel wall.As the level of the measuring medium rises or falls capacitance between the probe and vessel wall changes proportionately. A high frequency sine wave is applied between the probe and tank wall. A change of medium level will induce a change in the current of the applied sine wave. From when the capacitance in the vessel increase, impedance will decrease and current will increase and vice-versa.

Head mounted electronics converts the capacitance variation to 4-20mA signal for long distance transmission. It is provided with trimpots for SPAN and ZERO adjustments. With no moving parts it is free from wear and tear, rugged and robust in construction. No dead zone like float based instruments.

It must be ensured that the probe is parallel to the tank wall throughout it's length.

General:

Frequency of operation	:	5 to 15kHz.
Probe Material	:	Stainless Steel / Teflon insulated 10/12/16 mm rod upto Max 3 Metre length
Process connection	:	3/4",1",1.1/2" BSP(M) or 1"ASA 150 lbs flanged but thickness 12mm (or as per customer specification)
Power supply	:	24VDC
Output	:	4 to 20 mA.(non-isolated)
Span & Zero adjustment	:	Trim pots
Max.Working Pressure	:	10kg/sq.cm
Max.Working Temp.	:	150deg.C
Accuracy	:	±0.5%, ±1% or ±2%
Enclosure	:	Cast aluminium weather proof with PG9 cable gland or Flame proof (IS2148-2004,Gr II A and B gases); Optionally available for Gr. IIC gases also.
Cable Size	:	3 core, 0.75 sq.mm screened PVC cable.

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HOW TO ORDER

	BASIC MODEL:	CLT
Capacitance Type Level Transmitter		

	CABLE TYPE:	CF
NF Non-Conductive Flexible NR Non-Conductive Rigid CF Conductive Flexible CR Conductive Rigid		

	SIZE OF CONNECTION:	2"
1" 1 1/2" 2" 2 1/2"		

	TYPE OF CONNECTION:	TC
BSP/NPT For Threading ASA/BS/DIN For Flanges TC Triclover		

	ENCLOSURE:	A
A Cast Aluminium N Nylon 66 (Weather Proof) F Cast Aluminium (Flame Proof)		

	OUTPUT:	2
1 Voltage 2 4-20mA		

	PROBE LENGTH:	1000
Probe Length Below Process Connection (L)		

Ordering Example: CLT - CF - 2" - TC - A - 2 - 1000