

Product Features

- Continuous loop powered 4-20 mA operation
- Microprocessor Based
- Accuracy 1 % of span for constant dielectric of material
- Non-interactive zero and span calibration
- Calibration accomplished with 4 push buttons
- Heavy duty industrial design
- NEMA rated aluminum, stainless, PVC and explosion proof housings available
- Standard fitting 3/4" NPT, flange and special fittings available

Description

INTEMPCO LTX01 series 2-wire level transmitters are highly reliable microprocessor based sensors designed to measure tank levels of liquids and certain dry bulk media in metal tanks. LTX01 sensors measure the change in capacitance that occurs as the tank level changes and outputs a standard loop-powered 4-20mA signal. After calibration any change in level is recognized and converted to an analog 4-20mA signal. LTX01 sensors use very high frequency and very low amplitude sensing circuitry to greatly minimize the effects of coating on the sensing probe.

The LTX01 includes a standard 4-20mA loop powered LTX transmitter housed in a rugged enclosure, a 0.50 inch diameter rigid probe for ranges up to 20 feet and a fitting. Probe material is SS316, supplied bare or PFA jacketed. The LTX01 is designed for tanks which have fitting connections of 3/4 NPT or larger.

LTX01 can be used in many tough industrial applications. This level sensor is shock resistant and very rugged. There are no moving parts. PFA jacketed probe can withstand temperatures of up to 200°C and pressures to 500 psi.

Application / Process Notes

- Water and water-based liquids.
- Jacketed probes required for conductive media
- Organic Acids
- Oils and fuels in some metallic tanks
- Use bare probes with non-conductive media
- Use cable probes where top side access is limited
- On-site calibration required
- Not recommended where material dielectric changes
- Tank must be conductive or grounding may be required or see other Intempco level probe.

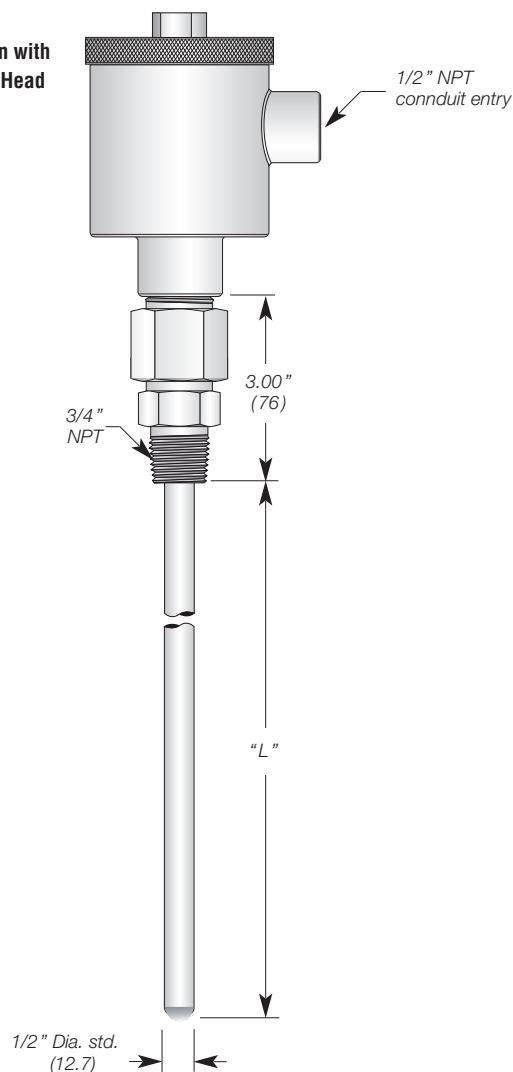


LTX01 LEVEL SENSORS

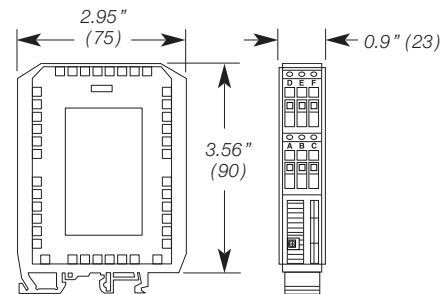
Continuous Capacitance Level Transmitter
4-20 mA, Loop Powered



Shown with
SS2 Head



DIN Rail
Remote Transmitter



Electrical Specifications

Supply Voltage :	12 VDC - 36 VDC
Output :	4-20 mA, loop powered
Maximum Loop Res.:	[Vs - 10] / 0.02 (i.e. 700Ω @ 24 VDC)
Calibration :	Via 4 push-button switches non-interactive settings
Capacitance Range :	10 pF to 10000 pF
Accuracy :	± 1% of full span (constant dielectric)
Repeatability :	± 0.1% of span
Damping Adjust :	0-30 sec.
Ambient Temperature :	-40 to 70°C (-40 to 158°F)

Mechanical Specifications

Enclosures	AH2 : Aluminum, lift cover type, NEMA 4 SS2 : Stainless 316, NEMA 4X AX3 : Class I, Gps. B,C & D, Class II, Gps. E,F & G, Class III, CENELEC: EExd IIC, IP66 NEMA 4, 7BCD, 9EFG CX3 : Class I, Class II, Div 2, Gps. C&G PV2 : PVC, 1/2" conduit, NEMA 4X PV9 : PVC, Pg9 Gland, NEMA 4X
Mounting Thread :	3/4" NPT standard, others available
Process Temperature:	200°C max (392°F)-consult factory for higher temperatures
Pressure Limits:	500 psi (34 bar) @ 25°C (77°F) 250 psi (17 bar) @ 150°C (302°F) 14.5 psi (1 bar) @ 200°C (392°F) <i>(PH Model only)</i>
Probe Mat'l :	PFA Teflon jacketed, or bare SS316

Ordering Information :

MODEL BOX1 BOX2 BOX3 BOX4 BOX5 BOX6
LTX01 - - - - - - -

BOX1 CODE	Output
LP	4-20mA, Loop Powered

BOX2 CODE	Enclosure
AX*	Explosion Proof
CX3	Explosion Proof
AH*	Aluminum Flip-Cover
SS*	Stainless Steel
PV9	PVC (Pg9 Gland)
PV2	PVC with 1/2" conduit

BOX3 CODE	Fitting
P**	Male pip size 3/4" NPT std.
PH**	Male pip size high pressure 3/4" NPT std.
S**	Flange SS316, RF 150lb.
FS**	Flange special, specify

** Fitting	** Flange
12 1/2" NPT	20 2" Flange
34 3/4" NPT	25 2-1/2" Flange
44 1" NPT	30 3" Flange
54 1-1/4" NPT	40 4" Flange
64 1-1/2" NPT	50 5" Flange
	60 6" Flange

BOX4 CODE	Probe Material
A	Teflon jacketed solid probe
B	SS316 Bare solid probe

BOX5 CODE	Probe Length "L"
---	In inches (20ft max.) Ex.: 065 = 65" long

BOX6 CODE	Options
DN	Remote DIN Rail Module

*2 = 1/2" NPT Conduit

*3 = 3/4" NPT Conduit

Note : See Level Accessories Section for Enclosure specifications and dimensions