LTX01 LEVEL SENSORS



Shown With
AX3 Head



Shown With
PV9 Head



Shown With
SS2 Head

CONTINUOUS CAPACITANCE LEVEL TRANSMITTER 4-20mA LOOP POWERED

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

Application / Process Notes

- Water and water-based liquids.
- Jacketed probes required for conductive media
- Organic Acids
- Oils and fuels in some metalic 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 conducive or grounding may be required or see other Intempco level probe.

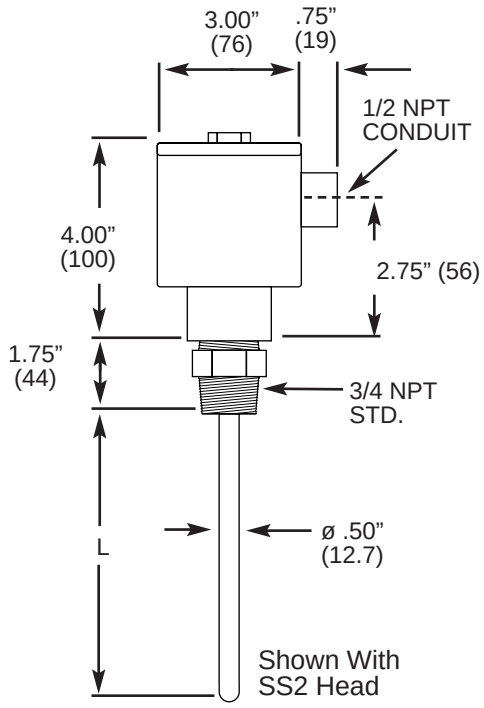
Description:

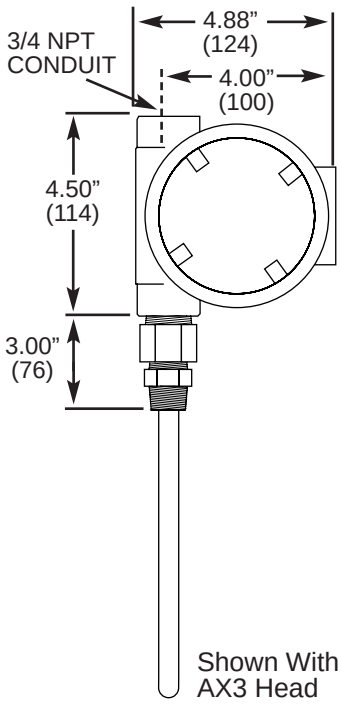
AYSIX LTX01 series 2-wire level transmitters are highly reliable microprocessor based sensors designed to measure tank levels of liquids and certain dry bulk media in metal tanks. LTX01 sensors measure the change in capacitance that occurs as the tank level changes and outputs a standard loop powered 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.

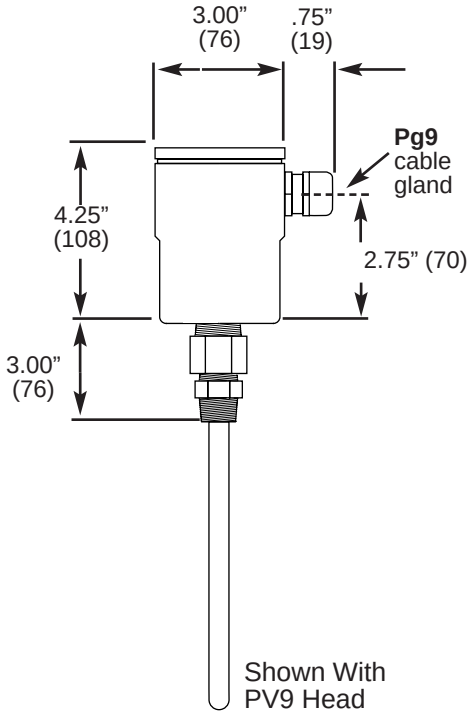
The LTX01 includes a standard 4 - 20mA loop powered LTX transmitter housed in a rugged enclosure, a 0.50 inch diameter rigid probe for ranges up to 20 feet and a fitting. Probe material is SS316, supplied bare or PFA jacketed. The LTX01 is designed for tanks which have fitting connections of 3/4 NPT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

LTX01 LEVEL SENSORS







Dim. (xx) are in millimeters

Electrical Specifications

Supply Voltage:	:12 VDC - 36 VDC
Output:	:4 - 20 mA , loop powered
Maximum Loop Res.	:(Vs - 10)/0.02 (i.e. 700Ω at 24VDC)
Calibration	:Via 4 push-button switches non-interactive ZERO and SPAN
Capacitance range	:10 pF to 10000 pF, jumper
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	:Aluminum Epoxy coated, Class I, Gps. B,C&D, Class II, Gps. E,F&G, Class III, CENELEC: EExd IIC, IP66 NEMA 4, 7BCD, 9EFG
	CX3	:Aluminum Epoxy coated,Class I, Class II, Div 2,Gps. C&G
Mounting Thread		:3/4 NPT standard
Process Temperature		:200°C max (392 F)-consult factory for higher temperatures
Pressure Limits (PH Model only)		: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)
Probe mat'l		:PFA Teflon jacketed, or bare SS 316

Ordering Information:

AYSIX MODEL			ENCLOSURE		PROCESS CONNECTION		PROBE MATERIAL		PROBE LENGTH "L" (20 feet Max.)
LTX01	-	B	- 3	-	_ _ _	-	_ _ _	-	_____	-	_ _ _ (in inches)

Enclosure	CODE
Explosion Proof	AX3
Explosion Proof	CX3
Aluminum Flip-cover	AH2
Stainless Steel	SS2
PVC (Pg9 Gland)	PV9
PVC with 1/2" Conduit	PV2

CODE	Fitting
P_ _	Male pipe size 3/4 NPT std.
PH_ _	Male pipe size high pressure 3/4 NPT std.
F_ _	Flange, SS316 RF 150 Lb.
FS_ _	Flange special specify

CODE	MATERIAL
A	Teflon jacketed solid probe
B	SS316 Bare solid probe

Fitting	CODE
1/2" NPT	**12**
3/4" NPT	**34**
1" NPT	**44**
1 1/4" NPT	**54**
1 1/2" NPT	**64**

FLange	CODE
2" FLange	**20**
2 1/2" FLange	**25**
3" FLange	**30**
4" FLange	**40**
5" FLange	**50**
6" FLange	**60**