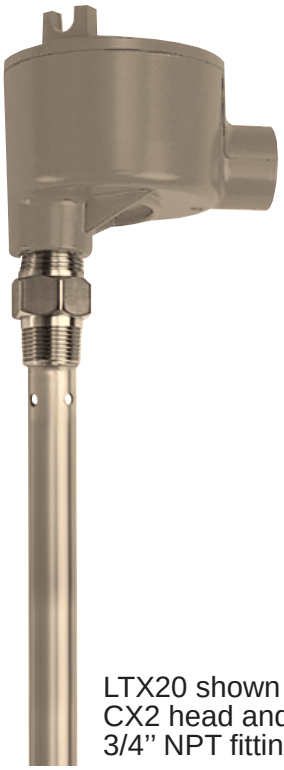
LTX20 LEVEL SENSOR

LTX20 shown with AX3 head and 3/4'' NPT fitting.



LTX20 shown with CX2 head and 3/4'' NPT fitting.

LTX20 shown with AH2 head and 3/4'' NPT fitting.

DIESEL FUEL AND OIL LEVEL SENSOR

Product Features

- For fuel oil tanks
- Compact 3/4 NPT concentric tube design
- Accuracy 1% of span for constant dielectric of material
- Tube and inner probe SS316
- For use with metalic and non-metalic tanks
- OEM applications, low cost
- Continous loop powered 4-20mA operation
- Non-interactive zero and span calibration

Applications

- Diesel fuels
- Hydraulic oils
- Vegetable oils
- Chemical holding tanks
- MEK and other solvants
- Many other, non-conductive liquids.

Do Not use with:

-Water and other conductive liquids
-Conductive acids
-Materials corrosive to SS316

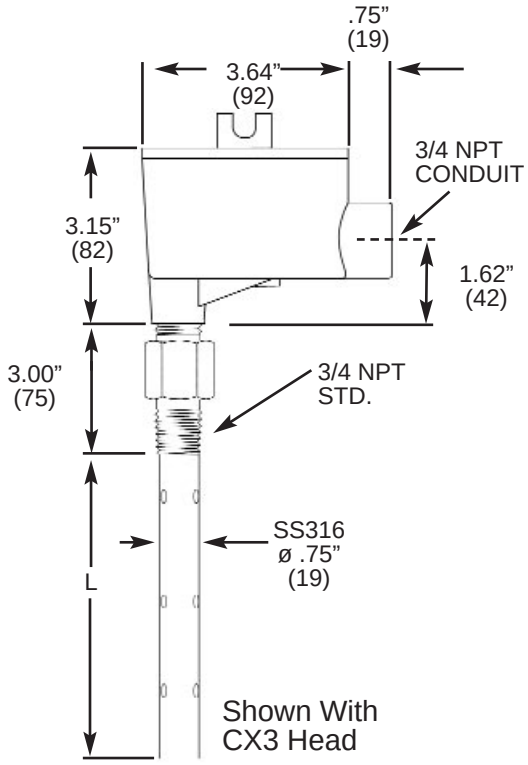
Description

The Intempco LTX20 series fuel capacitance level transmitter is designed to measure level of fuels and oils in metalic and non-metalic tanks. The probe measures level by measuring the change in capacitance as level changes in the tank. The micro- processor based electronics converts this capacitance change into a linear, highly accurate 4-20 mA signal.

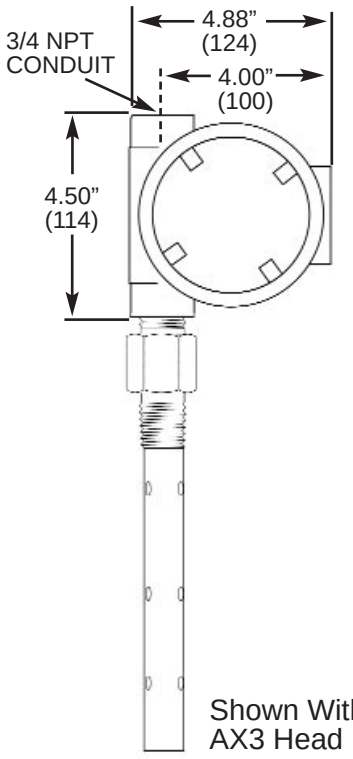
The LTX20 includes a standard 4 - 20mA loop powered LTX transmitter, a concentric 0.75-inch diameter concentric shield with 0.188 - rigid sensor for ranges up to 10 feet. Probe material is SS316. The LTX20 is designed for tanks which have fitting connections of 3/4 NPT or larger and in applications where the liquid is relatively clean or non-clogging.

An excellent application for the LTX20 are stationary or mobile generators. This level sensor is shock resistant and very rugged. There are no moving parts. To isolate for ground loops, a non-conductive reducer (such as PVC) can be used between the tank and the 3/4”NPT fitting of the LTX20.

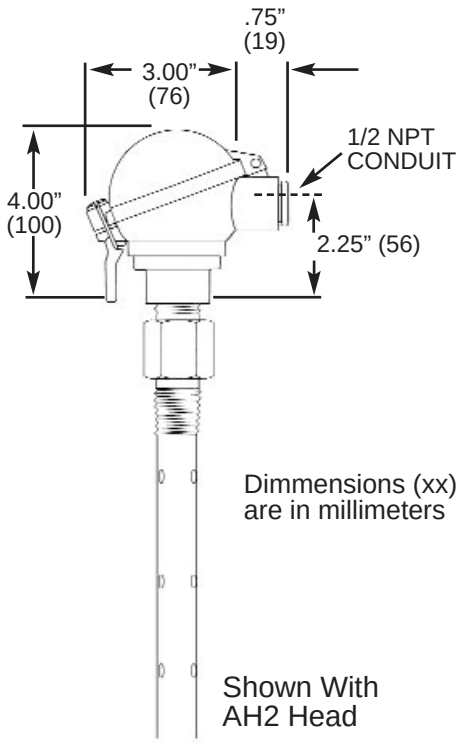
LTX20 LEVEL SENSOR



Shown With
CX3 Head



Shown With
AX3 Head



Shown With
AH2 Head

Dimmensions (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 selectable in 3 ranges
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		:100 psi (34 bar) @ 25°C (77 °F) 14.5 psi (1 bar) @ 200°C (392 °F)
Probe & Tube mat'l		:Stainless 316, 3/4” (19 mm) O.D.

Ordering Specifications

INTEMPCO MODEL			ENCLOSURE		PROCESS CONNECTION		PROBE LENGTH “L” (10 feet Max.)
LTX20	- B -	3 -	_ _ _	-	P (3/4)	- B -	_ _ _ (in inches)

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