



Shown With  
AX3 Head



Shown With  
AH2 Head



Shown With  
PV9 Head

## INTEMPCO LTX40 CAPACITANCE LEVEL PROBE

### Product Features

- Compact cable design
- Accuracy 1% of span
- 1 1/2" NPT thread standard
- For high tanks
- Heavy duty industrial design
- Good for limited top side applications.

### Applications

- Waste treatment plants
- Refineries
- Food and beverage industry
- Fire protection systems
- Water storage tanks
- Chemical holding tanks
- Many others

The **Intempco** series **LTX40** cable capacitance level transmitter is designed to measure liquids in high metallic tanks or when top side access is limited.

The probe measures level by measuring the change in capacitance as level changes in the tank.

The microprocessor-based electronics converts this capacitance change into a linear, highly accurate 4-20 mA signal.

The compact, microprocessor-based design makes installation and setup a simple task. The advanced signal conditioning circuitry greatly minimizes the adverse affects of coating media.

The series **LTX40** is truly designed with tough applications in mind.



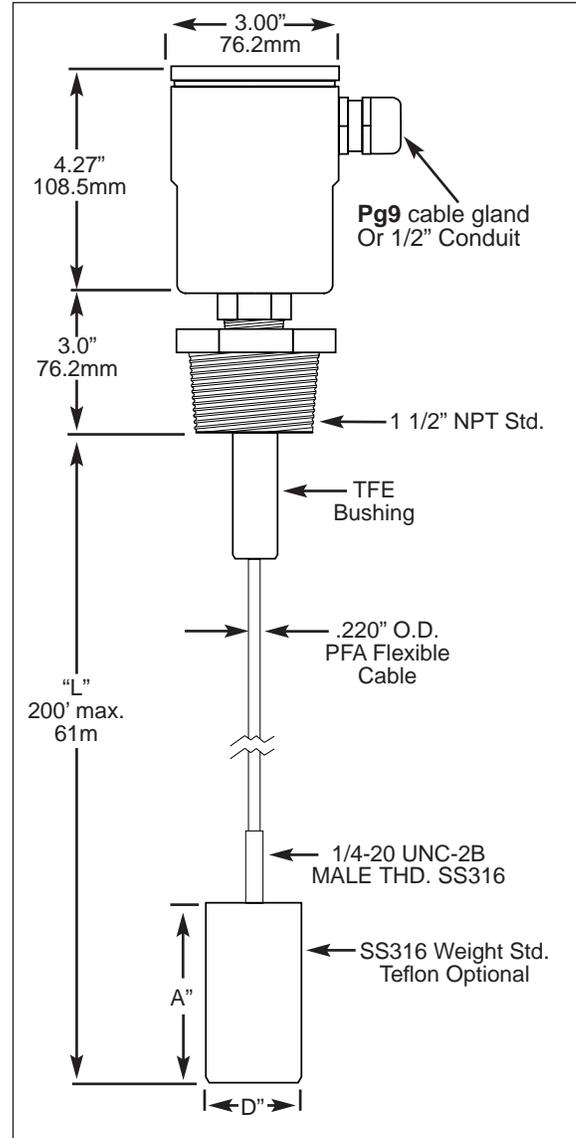
# LTX40 LEVEL SENSOR

## Electrical Specifications

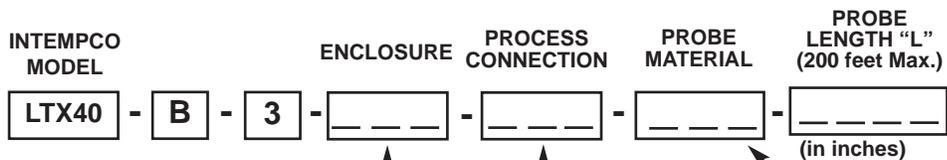
<b>Supply Voltage:</b>	:12 VDC - 36 VDC
<b>Output:</b>	:4 - 20 mA , loop powered
<b>Maximum Loop Res.</b>	:(Vs - 10)/0.02 (i.e. 700Ω at 24VDC)
<b>Calibration</b>	:Via 4 push-button switches non-interactive ZERO and SPAN
<b>Capacitance range</b>	:10 pF to 10000 pF, jumper
<b>Accuracy</b>	:±1% of full span (constant dielectric)
<b>Repeatability</b>	:±0.1% of span
<b>Damping adjust</b>	:0 - 30 sec
<b>Ambient Temperature:</b>	:-40 to 70 °C (-40 to 158 °F)

## Mechanical Specifications

<b>Enclosures</b>	<b>AH2</b>	:Aluminum, lift cover type, NEMA 4
	<b>SS2</b>	:Stainless 316, NEMA 4X
	<b>AX3</b>	: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
	<b>CX3</b>	:Aluminum Epoxy coated, Class I, Class II, Div 2, Gps. C&G
<b>Mounting Thread</b>		:1-1/2 NPT standard
<b>Process Temperature</b>		:200°C max (392 F)-consult factory for higher temperatures
<b>Pressure Limits (PH Model only)</b>		: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)
<b>Probe mat'l</b>		:PFA Teflon jacketed, or bare SS 316



**A** = 6" (152mm) For most applications unless otherwise specified by the customer.  
**D** = 1.25" (32mm) Weight for fittings larger than 1-1/4" NPT O.D. decreases for smaller fitting.



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 flexible probe
B	SS316 Bare flexible probe