



SYMPROBE™ RF CAPACITANCE LEVEL TRANSMITTER



- Self grounding probe does not require reference electrode in plastic or fiber-glass tanks
- Standard probe lengths are available from 1 to 10 feet
- Automatic temperature compensation over entire range
- Plastic construction with FEP Teflon® probe for use in highly corrosive liquids
- LED power light and 4-20 mA span invert switch
- 3/4" probe is ideal for use in restricted environments
- Rugged NEMA 4X enclosure with 1/2" conduit connector.



The revolutionary self grounding probe features two electrode plates and a guard wire which are completely encapsulated in FEP Teflon®. As liquid rises or falls against the probe, the conductive material in the medium bridges the signal across the active and ground plates to complete the circuit. The electronics measure the capacitance value and translates this figure into the liquids position along the probe.

SPECIFICATIONS

Range: 1 to 10' (30 cm to 3 m)
 Accuracy: ± 1% of span in air
 Repeatability: ± 0.125" (3 mm)
 Conductive range: > 100 micromhos
 Dielectric range: > 20 constants
 Probe pF range: 100 to 1000 pF
 Supply voltage: 14-36 VDC
 Loop resistance: 600 ohms @ 36 VDC
 Signal output: 4-20 mA, 14-36 VDC
 Signal invert: 4-20/20-4 mA
 Span adjustment: Potentiometer
 Indication: LED Power status
 Temp. rating: F: -40° to 158°
 C: -40° to 70°
 Pressure rating: 150 psi (10 bar) @ 25° C., derated @ 1.667 psi (.113 bar) per °C above 25° C
 Probe material: FEP Teflon®
 Enclosure rating: NEMA 4X (IP65)
 Enclosure Mat'l: PP (U.L. 94 VO)
 Mounting threads: 3/4" NPT (3/4" G)
 Mounting gasket: Viton (3/4") metric
 Conduit conn.: 1/2" NPT
 CE compliance: EN 50082-2 immunity
 EN 55011 emission

APPLICATION

The two-wire, self grounding capacitance level transmitter is mounted through the top wall of the tank and provides non-contact measurement up to 10'. The transmitter is best applied in non-coating or scaling type liquids. The all FEP Teflon® probe is an excellent choice for highly corrosive media.

General Purpose	Yes	Low pressure	Yes
Conductive	Yes	Medium pressure	Yes
Clean	Yes	Intrinsically safe	No
Foam	Yes	Non-conductive	No
Non-coating	Yes	Δ Conductive	No
Contact	Yes	Non-contact	No
Vapors	Yes	Dirty	No
Δ Gas density	Yes	Coating	No
Vacuum	Yes	Integral relay	No
Ambient pressure	Yes		

LEVEL SUPERSTORE

Capacitance Level Transmitter		STARTS FROM
LP75 - 20 <input type="text" value="1"/> - <input type="text" value=""/>		\$ 455
Mounting Thread (1) 0 - 3/4" NPT 6 - 3/4" G (add \$5)		Add \$ _____
Probe Length (2)		Add \$ _____
American	Metric	
012"	050 cm	
018"	100 cm (add \$60)	
024" (add \$30)	150 cm (add \$140)	
036" (add \$60)	200 cm (add \$220)	
048" (add \$95)	250 cm (add \$320)	
060" (add \$140)	300 cm (add \$420)	
072" (add \$190)		
084" (add \$245)		
096" (add \$300)		
108" (add \$355)		
120" (add \$410)		
		Total \$ _____

The G thread sensor comes with a 3/4" Viton mounting gasket.

The standard probe lengths are offered in U.S. and metric sizes. Custom probe lengths may be special ordered with a \$50 adder. To order a custom probe, select the next largest standard probe length and specify the length with the part number (ex: LP75-2001-80.0"). The custom probes may be specified in 1/2" increments from 10" to 119.5".



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This document is provided for reference and is believed to be accurate at the time of publication. However, Flowline reserves the right to change the product specifications at any time without notice. Additional information may be obtained on the Internet at <http://www.flowline.com> or by contacting Flowline.