

Symprobe™

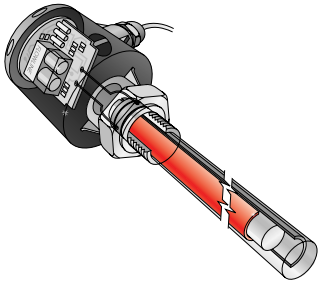
Capacitance Level Transmitter

Features

- ✓ FEP Teflon® probe for use with highly corrosive acid solutions
- ✓ Self grounding probe does not require reference in plastic tanks
- ✓ Easy potentiometer calibration with power LED and span invert switch

Description

The general purpose two-wire capacitance transmitter provides contact level measurement up to 10' or 3m, and is ideally suited for clean, water-based, non-coating corrosive liquids with constant chemistry. The transmitter is typically selected for pressurized day tank and process vessel applications. Media examples include hydrochloric and nitric acid.



Specifications

Range:	1' to 10' (30 cm to 3m)
Accuracy:	± 1% of full span
Resolution:	0.125" (3 mm)
Conductive range:	> 100 micromhos
Dielectric range:	> 20 constants
Capac. range:	100 to 1000 pF
LED indication:	Power status
Supply voltage:	14-36 VDC
Loop resist.:	600 Ohms@ 24 VDC
Signal output:	4-20 mA, two-wire
Signal invert:	4-20 or 20-4 mA
Calibration:	Potentiometer
Process temp.:	F: -40° to 158° C: -40° to 70°
Electronics temp.:	F: -40° to 140° C: -40° to 60°
Pressure:	75 psi (5 bar) @ 25° C., derated @ 1.667 psi (.113 bar) per °C. above 25° C.
Enclosure rating:	NEMA 4X (IP65)
Installed height:	4.8" (12.2 cm) above tank process mount
Encl. material:	PP, UL94VO
Probe material:	FEP Teflon®
Process mount:	3/4" NPT (3/4" G)
Mount. gasket:	Viton® (G version only)
Conduit entrance:	Single, 1/2" NPT
Classification:	General purpose
CE compliance:	EN 50082-2 immunity EN 55011 emission



Symprobe Ordering

LP75-20 1-

Process mount (1) (2)

- 0 3/4" NPT (US)
- 6 3/4" G (Metric)

Probe length (3)

US		Metric	
012	12" (30 cm)	050	50 cm (19.7")
018	18" (46 cm)	100	100 cm (39.4")
024	24" (61 cm)	150	150 cm (59")
036	36" (91 cm)	200	200 cm (78.7")
048	48" (122 cm)	250	250 cm (98.4")
060	60" (152 cm)	300	300 cm (118.1")
072	72" (183 cm)		
084	84" (213 cm)		
096	96" (244 cm)		
108	108" (274 cm)		
120	120" (305 cm)		



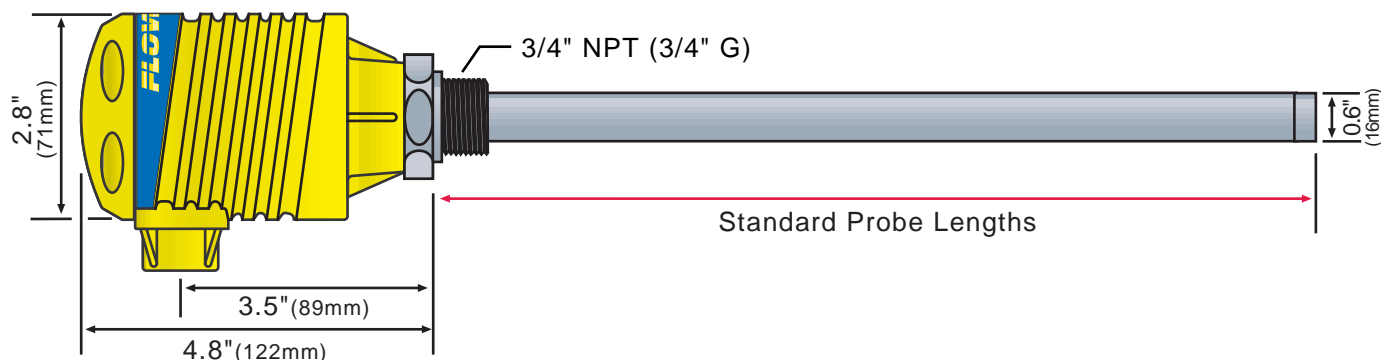
Ordering Notes

- 1) The straight G thread version seals with an included Viton® mounting gasket.
- 2) For installation on open tanks, order the LM50-1001 (2" NPT) or LM50-1061 (2" G) side mount bracket.
- 3) Custom probes may be special ordered in 1/2" (1.3 cm) increments from 12.5" (32 cm) to 119.5" (303 cm) (ie: LP75-2001-81").

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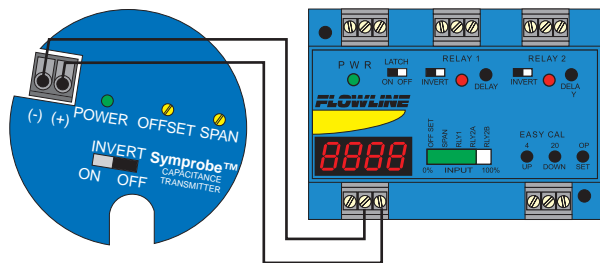
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Dimensions

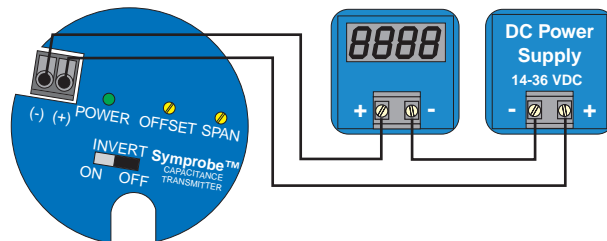


Specifications are subject to change without notice.

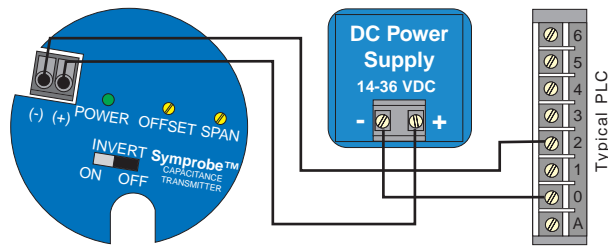
Wiring to LC52 Controller



Wiring to Loop Powered Meter



Wiring to PLC



Wiring to Universal Panel Meter

