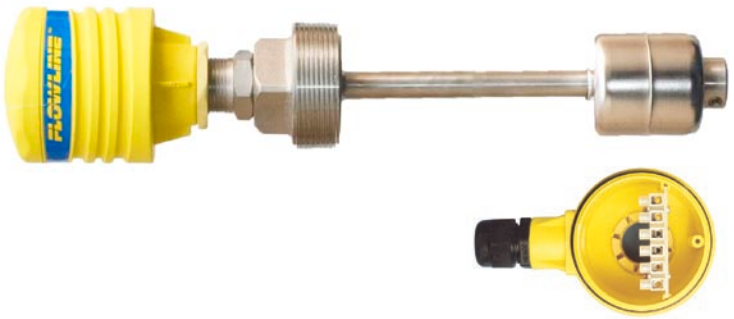
FloaTek™ LV55 Ultrasonic Level Transmitter

Application



The general purpose float level transmitter provides continuous level measurement up to 6.5' (2m) with a 4-20 mA signal output, and is factory configured to your selected dimension. This stainless steel liquid level sensor is well suited for high temperature or pressure tank level applications with relatively clean liquids such as water, diluted chemicals and light weight oils. Application examples include boilers and process vessels.

Features

- High pressure or temperature level measurement up to 6.5' (2m)
- Rugged 316 stainless steel float guide and process mounting plug
- Assembled to your guide length and measurement span dimensions
- Polypropylene junction box rated NEMA 4X with conduit port and terminal strip

Key Benefits

- Great for high pressure applications up to 200 psi
- Use in applications with foam or turbulence
- Loop powered output will interface directly with PLC/SCADA or local display

Compatible Products

DataLoop™
Level Indicator

DataView™
Level Controller

Commander™
Multi-Tank Level Controller

DataPoint™
Level Controller

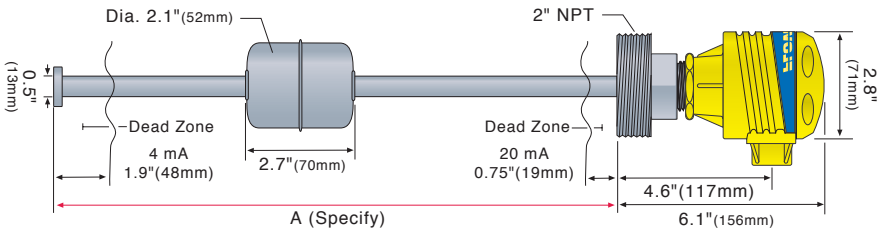
	LI25	LI55	LI90	LC52
Type	Panel Mount			Rail Mount
Class	IS / GP	GP		
Display	LCD	LED	LCD	LED
Backlight	Yes	No	Yes	- - -
Input	(1) 4-20 mA		(2 or 4) 4-20 mA	(1) 4-20 mA
4-20 Repeater	No	Yes (2 Input) / No (4 Input)	No	Yes
Relays	- - -	(4) SPDT	(6) SPDT	(2) SPDT
Supply	12-30 VDC (Loop)	85-265 VAC	10-30 VDC	120-240 VAC
Function	Display	Display, Auto Fill or Empty, High & Low Alarm		Auto Fill or Empty, High & Low Alarm
Enclosure	NEMA 4X Faceplate			- - -

FloaTek™ LV55 Ultrasonic Level Transmitter

Specifications

Range:	12” to 6.5’ (30cm to 2m)
Accuracy:	0.25% span in water
Configuration:	None, fixed span
Orientation:	± 20° from vertical
Specific gravity:	0.55 minimum
Supply voltage:	10 to 30 VDC
Loop resist.:	600 Ohms @ 24 VDC
Signal output:	4-20 mA, two-wire
Process temp.:	F: -40° to 185°
	C: -40° to 85°
Ambient temp.:	F: -40° to 140°
	C: -40° to 60°
Pressure:	200 psi (13.8 bar)
Enclosure rating:	NEMA 4X (IP65)
Enclosure mat.:	PP, UL94VO
Conduit entrance:	Single, 1/2” NPT
Process mount:	2” NPT
Guide-float mat:	316 SS
Classification:	General purpose
Compliance:	CE

Dimensions



Fittings

For optimum performance, install the level sensor using the below recommended or direct equivalent fittings.

	P/N	Description
	LM52-2400	3” NPT x 2” NPT (Sch. 40)
	LM52-2800	3” NPT x 2” NPT (Sch. 80)
	LM52-3800	4” NPT x 2” NPT (Sch. 80)
	LM52-2410	3” Socket x 2” NPT (Sch. 40)
	LM52-3410	4” Socket x 2” NPT (Sch. 40)
	LM52-2810	3” Socket x 2” NPT (Sch. 80)
	LM52-3810	4” Socket x 2” NPT (Sch. 80)
	LM52-2890	2” NPT Bulkhead Fitting, PVC
	LM52-2850	2” NPT Flange - 150# (Sch. 80)
	LM50-1001	2” NPT Bracket, Polypropylene

Ordering

LV55-S001-☐

Dimensions (1) (2)

A *Specify*
- *16″ (41cm)*
- *24″ (61cm)*
- *32″ (81cm)*
- *36″ (91cm)*
- *42″ (107cm)*
- *48″ (122cm)*

Orders for this custom built product are non-cancellable and/or non-returnable

Notes

1) Specify the A-dimension at the end of the part number. The level sensor is offered in six standard guide lengths from 16” to 48” (41cm to 122cm). The 20 mA set point is placed at 0.75” (19mm) below the mounting plug, and the 4 mA set point is placed at 1.9” (48mm) above the guide stop. The space above and below these set points are dead zones.
2) Custom guide lengths may be specified in 1/2” (1.3cm) increments from 12” to 78” (30cm to 2m). To calculate the custom guide length adder, round up the A-dimension to the next inch (2.5cm), multiply it by $11 per inch (2.5cm), and add that sum to the custom price.