

Application



Features

- Level measurement up to 24.5' (7.4m) with 1 programmable relay
- Configuration is simple via integral push button display module
- LED digital display indicates level in inches or centimeters
- Programmable relay for alarm or automatic fill-empty control
- Polypropylene enclosure rated NEMA 4X with rugged PVDF transducer

The general purpose 3-wire ultrasonic level transmitter provides continuous level measurement up to 24.5' (7.4m) with a 4-20 mA signal output, and is configured via the integral push button display module. The level sensor has one 10A relay which can be configured on a single set point (high level alarm or low level alarm) or latched on two set points for automatic fill or empty with fail-safe logic. This non-contact liquid level sensor is well suited for corrosive, ultrapure, sticky or dirty liquids, and is widely selected for bulk storage and day tank level applications.

Success



Millions of gallons of waste oil are collected, stored, transported and recycled each year. The EPA defines waste oil

as any petroleum, synthetic or seed based oil which has become impure through use. The largest waste oil producers are in the automotive, industrial, transportation and food industries. Recycled oil demand has grown steadily over the past decade, driven by rising petroleum and transportation costs. Non-contact ultrasonic is the ideal level measurement solution for dirty, viscous waste oil. Here, an EchoTouch ultrasonic level transmitter is installed on each waste oil storage tank.

Compatible Products

DataLoop™ Level Indicator DataView™ Level Controller



Commander™ Multi-Tank Level Controller



DataPoint™ Level Controller



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Spec Tech Industrial Electric

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6" to 24.5' (15cm to 7.4m)

±0.25% of range

0.125" (3mm)

6" (15cm)

8° conical

Push button

Non-volatile LED, 4-digit

Inch or cm

Relay status

200mA max.

4-20 mA, three-wire

4-20 mA, 20-4 mA

Sourcing or sinking

250 VAC @ 10A

Contact fail-safe: Reverts to safe state

Single point: alarm

Two point: latching

during echo-loss

Automatic

PP, UL94VO

9" (22cm)

(1) SPDT relay, latching

F: -20° to 140°, C: -4° to 60°

F: -40° to 140°, C: -40° to 60°

Power & signal: 3-conductor

30 psi (2 bar) @25° C., derated @1.667 psi (.113 bar) per °C. above 25° C.

14-36 VDC



Specifications

Range:

Accuracy:

Resolution:

Dead band:

Beam width:

Memory:

Configuration:

Display type: Display units:

LED indication:

Supply voltage:

Consumption:

Signal output:

Signal invert:

Current flow:

Contact type:

Contact logic:

Contact rating:

Process temp.:

Temp. comp.:

Pressure:

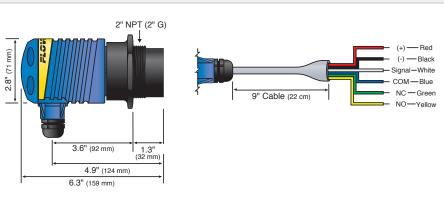
Ambient temp.:

Encl. material:

Cable length:

Cable type:

Dimensions



Fittings

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

	P/N LM52-2890	Description 2" NPT Bulkhead Fitting, PVC
9.	LM52-2850	2" NPT Flange - 150# (Sch. 80)
00	LM50-1001	2" NPT Bracket, Polypropylene

Relay: 3-conductor Cable jacket mat: Vinyl Trans. material: PVDF Process mount: 2" NPT (2" G) Mount gasket: Viton® Classification: General purpose Compliance: CE

Enclosure rating: NEMA 4X (IP65)

Conduit entrance: Single, 1/2" NPT

Ordering

Process mount (1) 0 NPT (US) 6 G (Metric) Signal output (2) (3) (4) 3 4-20 mA, sourcing 4 4-20 mA, sinking	LU30-50	1) 2) 3) 4)	sourcing and sinkin uses the negative common, and pro- use with sinking positive of the pow requires external sourcing devices. For level sensor p AC-DC power sup

-) Install the level sensor using Flowline installation fittings or equivalents.
- 2) The three-wire level sensor is offered with sourcing and sinking signal outputs. Sourcing uses the negative of the power supply as common, and provides internal excitation for use with sinking devices. Sinking uses the positive of the power supply as common, and requires external excitation for use with sourcing devices.
- 3) For level sensor power, order the LC95-1001 AC-DC power supply.
-) To special order cable, place the cable length (feet/m) at the end of the part number (i.e. LU30-5003S-10'). Add \$16 per foot of cable.

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