

LEVEL & PRESSURE Radar Transmitters



Flowline EchoPulse™ Radar Level Transmitters

- Unaffected by changes in temperature, pressure, vapor, mist, foam or other challenging conditions
- 2-wire, 4-20 mA output wiring ensures simple system integration
- LCD display and pushbutton module allow easy setup

Flowline's EchoPulse transmitters represent the next generation of non-contact level measurement, offering repeatable high-accuracy results in your most challenging applications. They use FCC-approved microwave RF 26-GHz pulse radar technology, making them a perfect alternative for tough applications where ultrasonic transmitters are challenged. Use them for lift stations, storage tanks, process vessels or other corrosive liquid media applications. Installation, configuration and commissioning are simple with the easy-to-use four-pushbutton keypad.

These transmitters detect liquid level using pulses that travel at the speed of light toward the liquid surface. When pulses reach the surface, a portion of the energy is reflected back to the sensor's horn. Units then use "time of flight" calculations to determine liquid levels, and produce a proportional 4-20 mA signal. Reduced dead-band (blanking distance) enables liquid media detection as close as 12 inches from the sensor's horn.

Unique models solve your application challenges

The **LR10** detects fluid levels in closed storage tank vessels. Integral LCD module displays your process value through an enclosure housing window. The **LR30** is designed for use in harsh applications at ambient temperatures, such as below-grade wastewater lift stations and environmental installations at dams, rivers and retention ponds. The LR30 includes a remote display module in a NEMA 4X housing. Use the module for intermittent field configuration, or leave it connected as a full-time remote-read display.



Integral LCD display and keypad make setup easy.



LR10
34651



LR30
34654

LR30 is a problem solver for difficult lift stations with grease and foam.



	34651	34654
Flowline #:	LR10-0010	LR30-0010-10
Range:	32.8' (10 m)	98.42' (30 m)
Accuracy:	±0.1968" (5 mm)	±0.1968" (5 mm)
Frequency:	26 GHz K-band	26 GHz K-band
Temperature:	-40 to 266°F	-40 to 212°F
Pressure:	14.5 to 43.5 psi	ambient
Beam angle:	22°	12°
Signal output:	2 wire, 4-20 mA	2 wire, 4-20 mA
Supply voltage:	24 VDC (16-26 VDC)	24 VDC (16-26 VDC)
Enclosure material:	aluminum w/ polycarbonate display window	PA66 (thermoplastic), IP68 rated
Horn material:	PTFE	316L SS & PA66 (thermoplastic)
Mount:	1½" NPT process connection	powder-coated bracket
Dimensions:	14"L x 3.8"W x 3.8"H	14.1"L x 4.9"W x 4.9"H (17.1"L w/ mounting bracket)
Certifications:	cTUVus, CE, RoHS, FCC part 15.209, CRN	cTUVus, CE, RoHS, FCC part 15.256

DESCRIPTION	STOCK #	EACH
LR10 EchoPulse Radar Level Transmitter	34651	\$ 1,700.00
LR30 EchoPulse Radar Level Transmitter	34654	1,800.00

ACCESSORIES

24-VDC Power Supply, 15 Watts, 0.6A	74178	\$ 47.95
1-Channel Surge Protection Barrier	17701	145.95
Shielded Instrument Wire, 22/3 Gauge	42740	0.29/ft

We also RECOMMEND...



RST-5003 Web Enabled Ethernet Modules

- Easily add any 4-20 mA signal to the Cloud for remote monitoring
- See current status plus historical data of processes anywhere, anytime

Monitor any critical process with a 4-20 mA type signal from any location with the RST-5003 Web Enabled Ethernet Module. Simply apply power and an Ethernet cable to view process values online through any web browser—with no added fees or subscriptions.

The module sends sensor data through an Ethernet cable connection to a local area network (using an embedded web page) or through an internet connection, where access is available anytime. View current process values, and up to 30 previous historical process values, after a brief initial registration at levelandflow.com.

MFR	DESCRIPTION	STOCK #	EACH
RST-5003	Web Enabled Ethernet Module, One 4-20 mA Input	52923	\$ 361.60

See page 96 for complete information.