

FLOWLINE

LA19 SERIES RICOCHET BATTERY POWERED LEVEL TRANSMITTER AND DISPLAY

- Accurate and reliable level measurement from 0.5 (.15) to 12 feet (3.7 meters)
- Low-cost solution for OEM and process applications
- Compact size and 2" transducer for small and medium size tanks
- Transmitter features PP enclosure rated NEMA 4X with PVDF transducer
- Display features Polycarbonate enclosure rated NEMA 4X with clear faceplate
- Large 3.5 digit 0.5" LCD with floating decimal point
- Engineering units on display range from -500 to 1999
- Simple potentiometer calibration for all display set points
- Echo-safe™ filtration eliminates false echo signal returns
- Fail-safe intelligence provides maximum process safety



SPECIFICATIONS

- Range: 0.5 to 12' (15.2 cm to 3.7 m)
 Accuracy: ± 0.25% of span in air
 Resolution: 0.125" (3 mm)
 Frequency: 50 kHz.
 Pulse rate: 3 per second
 Beam width: 8° conical
 Dead band: 0.5' (15.2 cm) min. standard conditions
- Supply voltage: 18 VDC
 Battery supply: 2 x 9 VDC batteries
 Loop resistance: 300 ohms @ 18 VDC
 Signal interface: 4-20 mA
 Fail-safe diag.: Reverts to 22 mA
 Display type: LCD, 3.5 digits
 Display size: 0.5"
 Calibration Adj.: Dual potentiometers
 LED Indication: Power & Fail Safe
 Temp. rating: F: -40° to 140°
 C: -40° to 60°
- Temp. comp.: Over entire range
 Pressure rating: 30 psi (2 bar) @ 25 °C., derated @ 1.667 psi (.113 bar) per °C. above 25 °C.
- Enclosure rating: NEMA 4X (IP65)
 Trans. Material: Encl: PP (U.L. 94 VO)
 Transducer: PVDF
- Display Material: Polycarbonate
 Mounting threads: 2" NPT (2" G)
 Mounting gasket: Viton (2") metric
 Conduit conn.: 1/2" NPT
 Cable length: 15 Feet (4.5 meters)
 CE compliance: EN 50082-2 immunity
 EN 55011 emission

A high frequency ultrasonic sound wave is pulsed three times per second from the base of the transducer. The sound wave reflects against the process medium below and returns to the transducer. The microprocessor based electronics measure the time of flight between the sound generation and receipt, and translates this figure into the distance between the transmitter and process medium below.

APPLICATION

The LA19 features two portions, a level transmitter and a compact display, that are both rated NEMA 4x. The level transmitter is mounted through the top wall of the tank and provides non-contact measurement up to 12'. The display is mounted to the side of the tank and provides local indication. The entire system is powered via a 18 VDC battery supply and can be activated by a moment switch located below the display. With non-contact technology, the transmitter and display are an excellent choice for applications with dirty, coating, corrosive type liquids. The compact design is the perfect size for small and medium tank applications.

General Purpose	Yes	Low pressure	Yes
Conductive	Yes	Medium pressure	No
Non-conductive	Yes	Intrinsically safe	No
³ Conductive	Yes	Integral relay	No
Non-contact	Yes	Foam	No
Clean	Yes	Contact	No
Dirty	Yes	Vapors	No
Coating	Yes	³ Gas density	No
Non-coating	Yes	Vacuum	No
Ambient pressure	Yes		

FLOWLINE

10500 Humbolt Street
 Los Alamitos, CA 90720
 Tel 562-598-3015
 Fax 562-431-8507
 www.flowline.com

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.

Battery Powered Transmitter & Display	STARTS FROM
LA19-50 <input type="checkbox"/> 1	\$1195
Mounting Threads ⁽¹⁾ _____	Add \$ _____
0 - 2" NPT	Total \$ _____
6 - 2" G (add \$5)	

The G thread sensor comes with a 2" Viton mounting gasket.

LA19-DS4 V1.0

LIQUID INTELLIGENCE