

EchoDucer™ Two-Wire Ultrasonic Level Transmitter



Specifications

Range:	8" to 26.2' (20cm to 8m)
Accuracy:	± 0.2% of span in air
Beam width:	3" (7.6cm) diameter
Dead band:	8" (20cm)
Supply voltage:	12-28 VDC
Signal output:	4-20 mA, two-wire
Calibration:	Fixed
Process temp:	F: -4° to 140° C: -20° to 60°
Pressure:	30 psi (2 bar)
Trans. insertion:	7" to 10' (18cm to 3m)
Enclosure rating:	NEMA 4X (IP65)
Process mount:	2" NPT (2" G)
Trans. material:	PVDF
Cable material:	FEP
Classification:	General purpose

Application

The general purpose two-wire ultrasonic transmitter provides non-contact level measurement up to 26' or 8m, and is well suited for corrosive or waste liquids. The transmitter is typically selected for atmospheric bulk storage, day tank or waste sump applications with challenging installations such as tall flanges, concrete ceilings, underground storage tanks or non-perpendicular fittings. Media examples include resin and sulfuric acid.

Features

- Rugged PVDF transducer for insertion through tall riser fittings, concrete walls or pipes with ID > 2" schedule 40
- Fixed 20 cm to 8m measurement span requires no field calibration
- Self leveling transducer for use with non-perpendicular fittings
- Fail-safe intelligence with diagnostic feedback for easy troubleshooting



Tech Tip

The breakthrough insertion design eliminates acoustic interference often associated with tall installation fittings, concrete ceilings or underground bulk storage tanks. The self leveling transducer can also be applied with installation fittings that are not perpendicular to the liquid surface. The transducer insertion length or A-dimension is typically specified from the top

of the process mount to the opening in the vessel.

Part Numbers

- LU-43-5101-A
- LU-43-5161-A

LU43-51 1-

Process mount (1) (2)

0 NPT (US)

6 G (Metric)

Dimensions (3)

A Specify

Ordering Notes

- 1) To order the EchoDucer transmitter with 10' (3m) cable only (without the NEMA enclosure, terminal strip and 2" mounting plug), order the LU43-5201.
- 2) For installation on open tanks, order the LM50-1001 (2" NPT) or LM50-1061 (2" G) side mount bracket.
- 3) Specify the A-dimension at the end of the part number (ie: LU43-5101-8"). The A-dimension may be specified in 1" (2.5 cm) increments from 7" (18 cm) to 10' (3m).

**203 Vest Avenue
Valley Park, MD 63088**

**Toll Free: (888) SPECTECH
Phone: (636) 537-0202**

**Fax: (636) 537-1405
E-Mail: sales@spectechind.com**