LEVEL & LEAK DETECTION

DESCRIPTION

The **Flowline EchoSonic LU2 Series ultrasonic level transmitter** provides non-contact liquid level measurement with a reversible 4-20 mA output. Models are available in three measurement ranges from 9.8 ft to 32.8 ft (3m to 10m), and an accuracy of ±0.2%. The **LU2 Series** is ideal for ultra pure, corrosive, waste, and slurry applications. Transmitters can be quickly configured using WebCal software. The software offers pre-programmed menus, tank set point graphics, and custom wiring diagrams. User can define loop failsafe, start-up condition, output at empty, and specific tank levels.

FEATURES

- *9.8', 26.2', 32.8' (3.0, 8.0, or 10m) ranges available*
- *Simple configuration*
- *Polycarbonate enclosure designed to be corrosion resistant and submersible*
- *Minimal deadband to top of water optimizes filling capacity*
- *Adjustable loop failsafe (hi, low, last value)*
- *2" (5.1 cm) beam diameter for applications with restricted space*
- *Calibration protected w/FOB key*

LU28-XX-B

## APPLICATIONS

- *Cooling tower sumps*
- *Tanks*
- *Wells*
- *Ice storage*
- *Waste sumps*
- *Process vessels*

SPECIFICATIONS

Supply Voltage	24 VDC @ 20.8 mA		**Resolution**	
Accuracy	±0.2% of span in air		LU27	0.019" (0.5 mm)
Signal Output	4-20 mA @ 500Ω two-wire		LU28/29	0.079" (2.0 mm)
Measurement Range			**Process Connection**	
LU23	8" to 18.0' (20 cm to 5.5 m)		LU23	2" NPT
LU27	4" to 9.8' (10 cm to 3.0 m)		LU27	1" NPT
LU28	8" to 26.2' (20 cm to 8.0 m)		LU28/29	2" NPT
LU29	8" to 32.8' (20cm to 10 m)		**Cable Length**	10' (3m) length
Memory	Non-volatile		**Operating Temperature**	-31° to 140°F (-35° to 60°C)
Deadband			**Enclosure Rating**	NEMA 6P (UL 50 Type 6P)
LU23	8" (20 cm) from sensor			Polycarbonate
LU27	4" (10 cm) from sensor		**Dimensions**	2.9"H x 4.1"W x 4.1"D
LU28/29	8" (20 cm) from sensor			(7.4 x 10.5 x 10.5 cm)
Operating Pressure	30 psig (206.9 kPa)		**Weight**	
Process Temperature	-4° to 140°F (-20° to 60°C)		w/o bracket	1.5 lb (0.7 Kg)
Beam Width			w/ bracket	2.1 lb (0.95 Kg)
LU23	3" (7.6 cm)		**Approvals**	CE, FM, RoHS
LU27	2" (5.1 cm)		**Warranty**	1 year
LU28/29	3" (7.6 cm)			
Fail Safe	Selectable: 4 mA, 20 mA, 21 mA, 22 mA, or hold last signal			

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LEVEL & LEAK DETECTION

DIMENSIONS

4.1 (10.5) 10' Cable (3m)

Red - Power
Black - Return
White - Tx (out)
Green - Rx (in)
Shld

1" NPT (1" G)

1.9 (4.9) 2.9 (7.4)

1.2 (3.2)

LU27

4.1 (10.5) 10' Cable (3m)

Red - Power
Black - Return
White - Tx (out)
Green - Rx (in)
Shld

2" NPT (2" G)

2.4 (6.1) 3.4 (8.6)

1.7 (4.4)

LU28/29
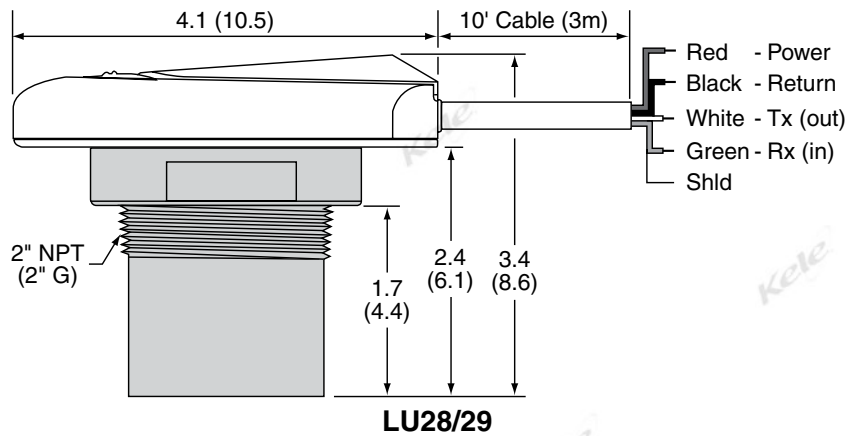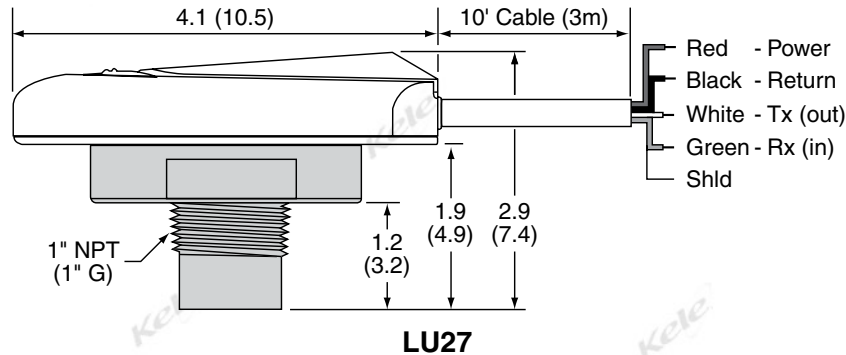
ORDERING INFORMATION

MODEL	DESCRIPTION
LU27-01	Ultrasonic level transmitter with fob, 9.0 ft (3.0m)
LU27-01-B	Ultrasonic level transmitter with fob, 9.0 ft (3.0m) with bracket
LU27-01-B-C	Ultrasonic level transmitter with fob, 9.0 ft (3.0m) with bracket, custom calibration
LU27-01-C	Ultrasonic level transmitter with fob, 9.0 ft (3.0m) custom calibration
LU28-01	Ultrasonic level transmitter with fob, 26.2 ft (8.0m)
LU28-01-B	Ultrasonic level transmitter with fob, 26.2 ft (8.0m) with bracket
LU28-01-B-C	Ultrasonic level transmitter with fob, 26.2 ft (8.0m) with bracket, custom calibration
LU28-01-C	Ultrasonic level transmitter with fob, 26.2 ft (8.0m) custom calibration
LU29-01	Ultrasonic level transmitter with fob, 32.8 ft (10m)
LU29-01-B	Ultrasonic level transmitter with fob, 32.8 ft (10m) with bracket
LU29-01-B-C	Ultrasonic level transmitter with fob, 32.8 ft (10m) with bracket, custom calibration
LU29-01-C	Ultrasonic level transmitter with fob, 32.8 ft (10m) custom calibration

RELATED PRODUCTS

LI99-1001	Fob calibration key
LM50-1001	2" Mounting bracket (included with "B" option)
LM50-1001-1	1" Mounting bracket (included with "B" option)
LM52-1400	2"NPT x 1" NPT (Sch. 40) fitting
LM52-2400	3" NPT x 2" NPT (Sch. 40) fitting
LM52-2800	3" NPT x 2" NPT (Sch. 80) fitting
LM52-3800	4" NPT x 2" NPT (Sch. 80) fitting