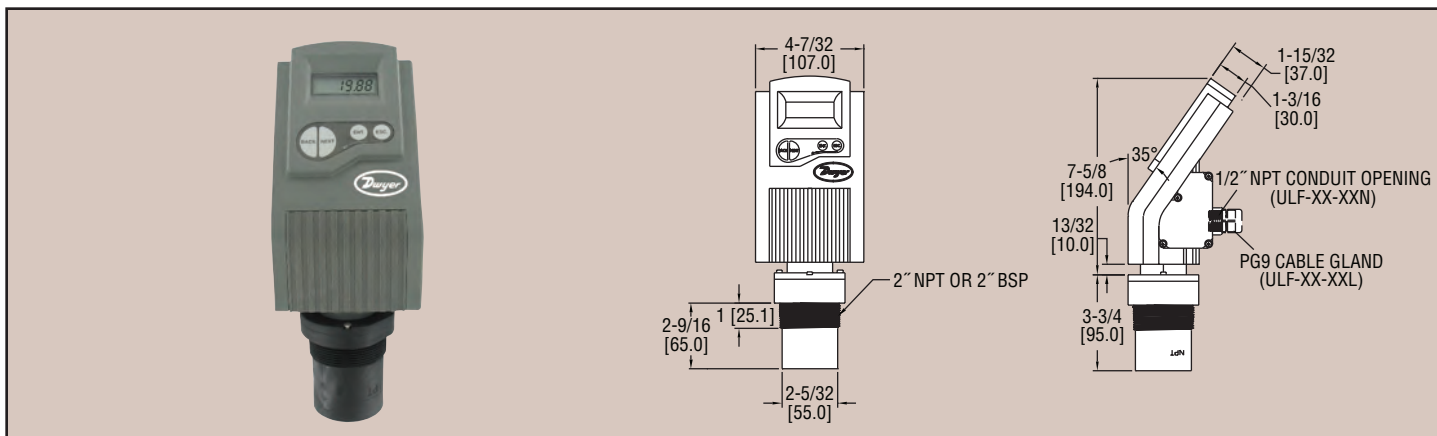




Series  
ULF

# Ultrasonic Flow Transmitter

Integrated LCD Display, Non-Contact Level Sensing for Open Channel Flow



The Series ULF is an ultrasonic continuous flow measurement transmitter perfect for maintenance free, non-contact measurement of open channels. This series operates on ultrasonic technology and offers dependable, highly accurate measurements. The ULF features easy programming with a 4 digit LCD screen and a simple menu format. It is perfect for direct installation over flumes and weirs and compensates for virtually all environmental conditions such as vapors, gases, temperature variations, and wind. The weatherproof NEMA 4 body makes this unit ideal for any flow measurement situation.

## FEATURES

- High accuracy (0.25% of max. range)
- Automatic ambient temperature compensation
- ABS & UV resistant body
- Programmed with standard weir and flume sizes

## SPECIFICATIONS

**Service:** Compatible liquids.

**Wetted Materials:**

- Sensor: Polypropylene;
- Acoustic window: ECTFE.

**Ranges:**

ULF-X1-XXX: 0.82 to 16.4 ft (0.25 to 5 m).

ULF-X2-XXX: 1.96 to 49.2 ft (0.6 to 15 m).

**Accuracy:** 0.25% of max. range (at 20°C).

**Resolution:** 0.04" (1 mm).

**Blind Zone:**

ULF-X1-XXX: 0.8 ft (.25 m);

ULF-X2-XXX: 1.96 ft (0.6 m).

**Beam Angle:** 5° @ 3 db point.

**Temperature Limits:** -40 to 158°F (-40 to 70°C).

**Temperature Compensation:** Automatic.

**Pressure Limits:** 13.5 to 30 psi (0.9 to 2 bar).

**Power Requirement:** 18 to 28 VDC.

**Output Signal:** 4 to 20 mA.

**Loop Resistance:** Max. 727 Ω @ 28 VDC.

**Electrical Connections:** Screw terminal.

**Conduit Connection:** 1/2" NPT, cable gland (optional).

**Process Connection:** 2" NPT, 1/2" BSP (optional).

**Enclosure:** Plastic enclosure: ABS & UV resistant body.

**Enclosure Rating:** NEMA 4 (IP65).

**Mounting Orientation:** Vertical.

**Failsafe:** 3 min delay before transmission of an error signal.

**Memory:** Non-volatile.

**Display:** 4 digit LCD.

**Units:** ft, m (optional).

**Programming:** 4 button.

**Weight:** 3.1 lb (1.4 kg).

Model	Description	Max. Range
ULF-01-KFN	Ultrasonic Flow Transmitter Short Range	16.4 ft (5 m)
ULF-02-KFN	Ultrasonic Flow Transmitter Standard Range	49.2 ft (15 m)

FLOW

Flow Transmitters,  
Ultrasonic