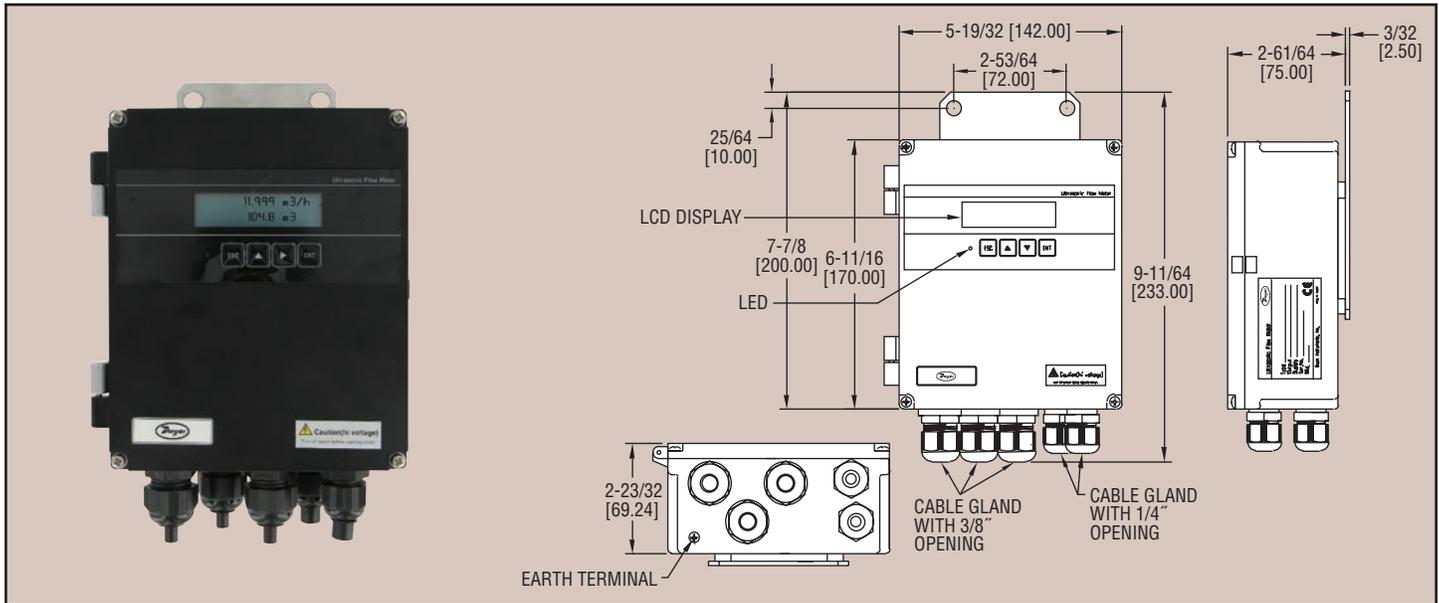




Series  
UXF3

# Ultrasonic Flowmeter Converter

Excellent Performance and Easy Operation



The Series UXF3 Ultrasonic Flowmeter Converters are paired with Series SX1 or SX2 sensors in order to utilize the transit-time measure method. Thanks to microprocessor-based electronics, the flowmeter can easily be configured from the front keypad to specific applications. The flowmeter is suitable for liquid flow measurements for pipes from 1/2 inch to 19.5 feet diameter. The accuracy of this flowmeter falls within  $\pm 1\%$  of the flow rate. The UXF3 also provides excellent resistance against aerated flow such as sludge, raw sewage, and bubble contained flow. The multilingual display supports a variety of language choices. The combination of the easy to read LCD screen and front panel buttons along with the variety of language selections makes this flowmeter very user friendly. This flowmeter incorporates the latest electronics and high-speed digital signal processing technologies (32 bit MPU), realizing high performance and easy operation. See bulletin F-107-UXF3 for more details.

## FEATURES

- High accuracy
- Excellent resistance against aerated flow
- Quick response with high-speed microprocessor
- Multilingual display (English, Japanese, German, French, and Spanish)
- Large type graphic LCD
- Front keypad

Model	Power Supply	Serial Communications
UXF3-A0	100-240 VAC 50/60Hz	N/A
UXF3-B0	20-30 VDC	N/A
UXF3-A1	100-240 VAC 50/60Hz	RS485
UXF3-B1	20-30 VDC	RS485

## SPECIFICATIONS

**Service:** Liquid flow through which ultrasonic signal can be transmitted (water, sea water, oil, and fluid of unknown velocity).

**Inputs:** Sensor cable radio frequency coaxial cable RG-58A/U2.

**Range:** 0 to  $\pm 105$  fps (0 to  $\pm 32$  m/s) (bi-directional flow).

**Display:** LCD with backlight, 16 letters 2 lines.

**Accuracy:**  $\pm 1.0\%$  of rate.

**Power Requirements:** 100 to 240 VAC  $\pm 10\%$  50/60 Hz, or 20 to 30 VDC.

**Power Consumption:** AC: 15 VA; DC: 6W.

**Temperature Limits:** Ambient  $-4$  to  $131^\circ\text{F}$  ( $-20$  to  $55^\circ\text{C}$ ).

**Output:** Analog: 4 to 20 mA DC current output; Digital: One mechanical relay output, 240 VAC, 30 VDC, 1 A. Two transistor outputs available, Open collector output: 30 VDC, 0.1A.

**Serial Communications (option):** RS485.

**Enclosure Rating:** NEMA 4X (IP66).

**Material:** Aluminum alloy.

**Electrical Connections:** Screw terminals.

**Mounting:** Wall or pipe mount.

**Weight:** 10 lb (4.5 kg).

## OPTION

For NIST traceable calibration certificate, use order code NISTCAL-FU.