



Ultrasonic Level Transmitter

PRECISION INSTRUMENTATION FOR MEASUREMENT AND CONTROL

USL-1000



FEATURES

Sensor

- Wide range: 12 in. to 25 ft. (30 cm. to 7.6 m.)
- Resolution 0.1-inch
- Accuracy +/- 0.25% of range
- Programmable filtering
- Low Cost
- Temperature compensation
- Excellent temperature characteristics
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Transmitter

- 2-line x 16-character LCD display
- User-friendly 4-pushbutton operator interface
- 4-20 mAdc output
- 3 User configurable alarm contacts
- NEMA-4X fiberglass, surface mount enclosure

The USL-1000 is a low cost, high precision ultrasonic monitoring system for tank level, chemical inventory control, and open channel flow measurement. The system consists of one or more ultrasonic sensors and an Eagle Microsystems digital indicator/transmitter.

The sensor is capable of monitoring level over a range of 12-inches to 25 feet with a resolution of 0.1-inch. It is provided with integral microprocessor intelligence, which eliminates false echoes and ambient noise to assure signal accuracy.

The measured value is displayed via a 2-line x 16-character, backlit LCD display and can be transmitted to remote instrumentation. The indicator transmitter is provided with an operator keypad having four (4) tactile feedback buttons. All commands are menu driven. The instrument provides a 4-20 mAdc output signal for recording or control and three (3) user programmable solid state contact outputs for alarm.

As an option the sensor can be provided as a stand alone unit with its own 4-20 mAdc output which can be transmitted directly to your PLC, SCADA system or computer for central monitoring or control. For chemical inventory control applications and in conjunction with an Eagle scale, the system can be configured to measure tank level and weight simultaneously.

SPECIFICATIONS

Sensor

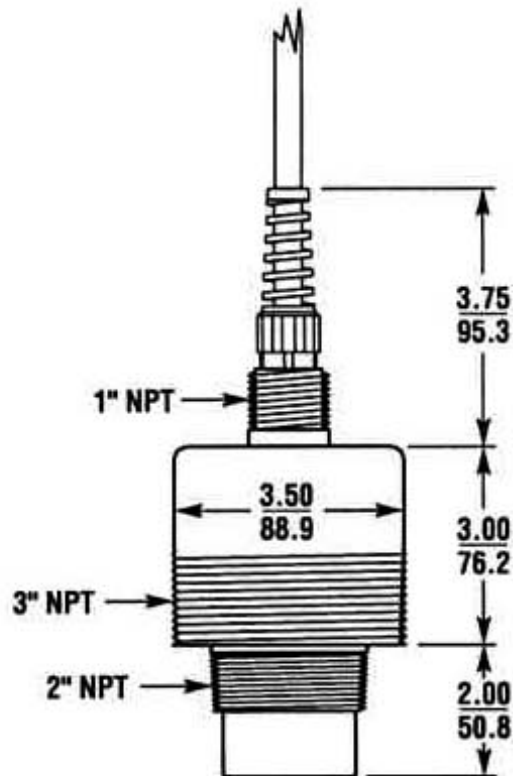
Range – 12-inches to 25 feet
Accuracy - +/- 0.25% of range
Resolution – 0.1-inch
Rating – NEMA-4X
Transducer type – Ceramic
Operating temp - -40 to +140 deg F.
Temp compensation – internal
Cable – 6 conductor, 6 ft std
Operating frequency – 69 kHz

Indicator/Transmitter

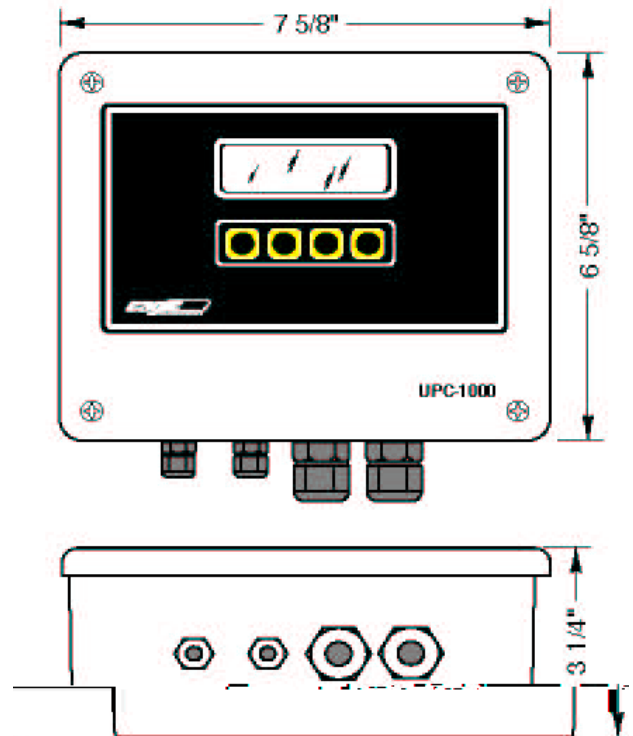
Display – LCD, 2-line x 16 character
Interface – 4 tactile feedback pushbuttons
Power required – 120 Vac, 60 Hz
Rating - NEMA-4X fiberglass, wall mount
Outputs – One 4-20 mA dc into 500 ohms
3 solid state contacts, 1.2 A

Options

Cable length – customer to specify



Ultrasonic Sensor



Indicator/Transmitter