

# Intrinsically Safe Ultrasonic Level Sensor with 4-20 mA Output Series: LPU-2428



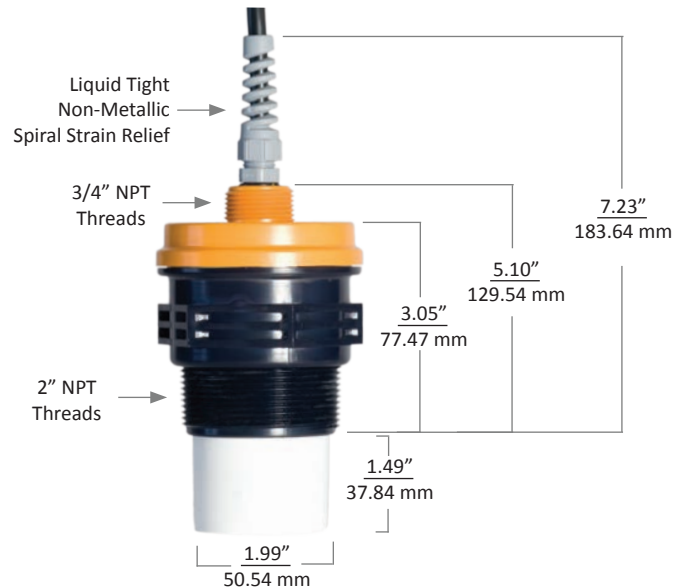
With Class 1 Division 1 ratings, the loop powered LPU-2428 is built to handle the most hazardous locations. Add the ability to internally calculate volume or open channel flow data, and you have a unique and powerful ultrasonic sensor.

## Features

- Loop powered 4-20 mA output
- Class 1 Division 1, Intrinsically Safe rating
- Built-in calculations of current volume, flow, and flow totals



# LPU-2428 Specifications



## Performance

- Operating Range
  - 1 - 25 ft. (0.3 - 7.6 m) on liquids
  - 1 - 10 ft. (0.3 - 3 m) on solids
- Beam Pattern: 9° off axis
- Internal Temperature Compensation
- Frequency: 69 kHz
- Accuracy:  $\pm 0.25\%$  of detected range
- Resolution: 0.1 in. (2.5 mm)
- Response Time: Dependent on output, ranges from 0.6 - 3 seconds

## Connectivity

- Output: 4-20 mA (loop powered)
- Loop Resistance: 600 ohms @ 24 VDC  
150 ohms @ 12 VDC
- Network/Web with the RST-5000 series module or LOE

## Environmental

- Ratings: IP65
- Operating Temp: -40° - 140°F (-40° - 60°C)

## Certification

- Class 1, Div. 1, Groups C & D
- Class 1, Zone 0, AEx iA IIB, T3; IP65

## Electrical

- Total Current Draw: 4-20 mA
- Supply Voltage: 12-28 VDC
- Wiring Connection: 2-conductor shielded cable

## Programming

- Interface with RST-4101 USB Module (purchase separately)  
*-The RST-4101 is powered by a USB port connecting the RST to a computer. A 2-conductor terminal strip allows the module to be connected in parallel with the 4-20 mA loop.*
- Volume Measurement Settings:  
Formulas for a wide variety of common tank types
- Flow Measurement Settings:  
Formulas for a wide variety of weirs and flumes total flow counter
- 32-point linearization table for unique tanks, weirs, and flumes
- User selected units of measure

## Physical

- PVDF (Kynar®) transducer housing
- PC/PBT upper housing
- Transducer Type: Ceramic, PVDF faced

## Model Configuration Options

Model Number: LPU-2428 - C\_\_\_\_\_ Cable length in feet (6 ft. is standard)