

# IRU-2420 Series

Non-Incendive Mid-Range Ultrasonic Level Sensor  
4-20 mA Output

## Datasheet



The IRU-2420 series provides a non-contact method of detecting distance or proximity, with on-board level or volume calculations. With built-in technology to compensate for unpredictable variables such as humidity, temperature, and agitators, the IRU-2420 has the flexibility to provide precision measurements in a wide variety of indoor and protected outdoor applications.

### Features

- Range: 1 - 25 ft. (0.3 - 7.6 m) for liquid and solid targets
- AutoSense Software for hassle-free setup
- Internal temperature compensation
- Works on liquids, solids, and bulk solids
- Class I Div 2 Non-incendive
- IP65 Enclosure rating: dust-tight, protected against water jets

# IRU-2420 SPECIFICATIONS



## Performance

- Operating Range
  - 1 - 25 ft. (0.3 - 7.6 m) for liquid or solid targets
  - 1 - 10 ft. (0.3 - 3.0 m) for bulk 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: Programmable (55 ms minimum @ 25 ft.)

## Connectivity

- Output:
  - 4-20 mA
  - 4-20 mA with (2) NPN outputs

## Environmental

- Enclosure Protection: IP65
- Operating/Compensated Temperature Range:
  - 20° to 140°F (-30° to 60°C)

## Electrical

- Total Current Draw: 75 mA @ 24 VDC
- Operational Supply Voltage: 12-28 VDC
- Programming Supply Voltage: 15-28 VDC
- Wiring Connection:
  - 3 or 5-conductor shielded cable
  - 4 or 5-pin micro connector

## Programming

- Interface with RST-3002 Programmer (purchase separately)
- Interfaces with 32- and 64-bit operating systems
- User selected units of measure

## Physical

- PC/PET upper housing
- PVDF transducer housing
- Transducer Type: Ceramic

## Certification

- IP65
- CSA:
  - Inputs: 12 - 28 VDC; Outputs: 4-20 mA, NPN
  - Class I Division 2 Groups C & D T6 (Ta 60°C)
  - Ex nA IIB T6
  - Class I, Zone 2; AEx nA IIB T6





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