

# Mid Range Ultrasonic Level Sensor

## Series: IRU-2420

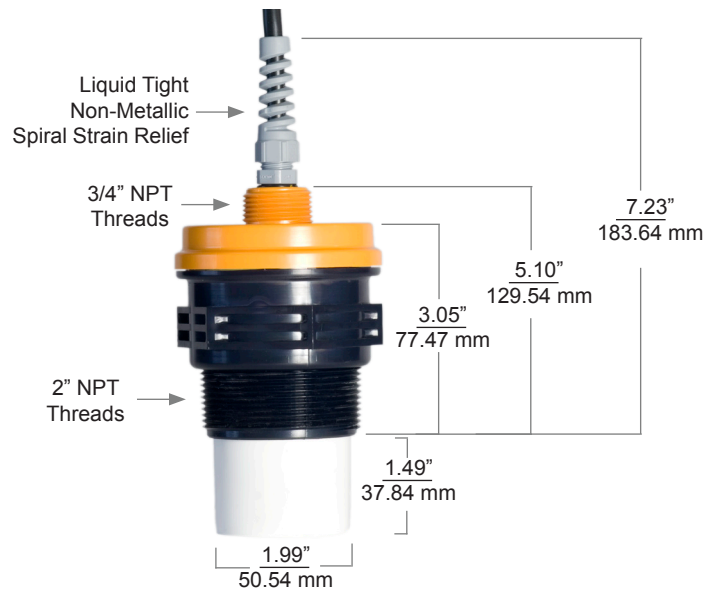


The IRU-2420 series provides a non-contact method of detecting level, presence/absence detection, volume, proximity and distance. With built in technology to compensate for unpredictable variables such as humidity, temperature and agitators the IRU-2420 is the right sensor for mid-range, all-purpose applications.

### Features

- AutoSense Software for hassle-free setup
  - Internal Temperature Compensation
  - Works on solids and liquids
  - Ranges up to 25 ft.
  - CSA Class I, Division 2 Certification
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# IRU-2420 Specifications



## Performance

- Operating Range  
1 - 25 ft. (0.3 - 7.6 m)
- 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 (20 ms minimum)

## Connectivity

Output:

- 4-20 mA  
600 ohms @ 24 VDC  
150 ohms @ 12 VDC
- 4-20 mA with (2) NPN outputs

## Environmental

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

## Electrical

- Total Current Draw: 75 mA @ 24 VDC
- Supply Voltage: 12-28 VDC
- Wiring Connection: 4 or 5 conductor shielded cable

## Programming

- Interface with RST-3001/3002 Programmer (purchase separately - powered by USB)
  - The RST-3001 is 32 bit only
  - The RST-3002 is 32 and 64 bit compatible
- User selected units of measure

## Physical

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

## Certification

- Class 1, Div. 2, Groups A, B, C, D
- IP65

# Common Model Configurations

Model Number	Model Description
IRU-2423-C20-B81	1 - 25 ft range, 69 kHz, 2" MNPT, <b>4-20 mA Output, 20 ft cable</b>
IRU-2423-M-B81	1 - 25 ft range, 69 kHz, 2" MNPT, <b>4-20 mA Output, Microconnector</b>

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## IRU-2420 Accessories

Please order separately, by part number.

Description	Part Number
<b>Programming Module</b>	
RST-3002 (USB - 32 and 64 bit compatible)	RST 3002

