

IRU-2420 Ultrasonic Level Sensor



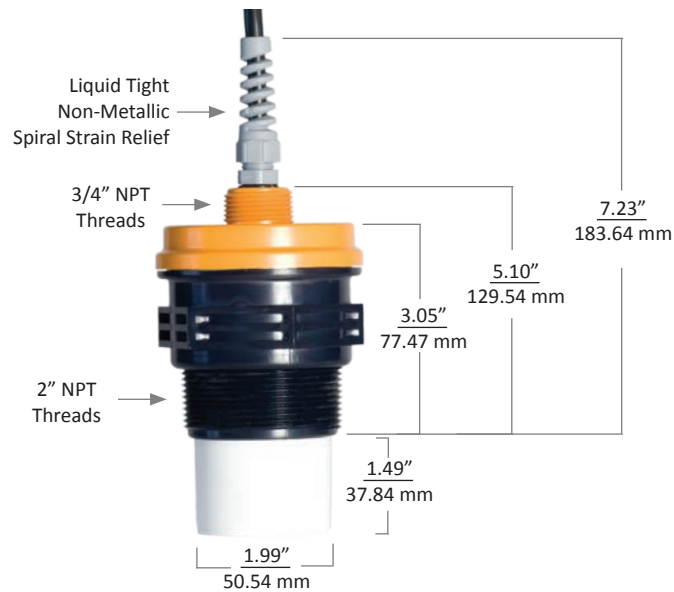
The IRU-2420 series provides a non-contact method of detecting level, presence/absence detection, volume, proximity and distance. With built in technology to compensate for unpredictable variables such as humidity, temperature and agitators the IRU-2420 is the right sensor for your application.

Features

- AutoSense Software for hassle-free setup
- Internal Temperature Compensation
- Works on solids and liquids



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-C6	1 - 25 ft range, 69 kHz, 2" MNPT, 4-20 mA Output, 6 ft cable
IRU-2423-M	1 - 25 ft range, 69 kHz, 2" MNPT, 4-20 mA Output, Microconnector
IRU-2425-C6	1 - 25 ft range, 69 kHz, 2" MNPT, 4-20 mA / 2 NPN Outputs, 6 ft cable
IRU-2425-M	1 - 25 ft range, 69 kHz, 2" MNPT, 4-20 mA / 2 NPN Outputs, Microconnector

IRU-2420 Accessories

Please order separately, by part number.

Description	Part Number
Over Molded Extension Cables with Foil Shield	
4 Conductor	
Straight, 2 m	135407-0002
Right Angle, 2 m	135407-1002
Straight, 5 m	135407-0005
Right Angle, 5 m	135407-1005
5 Conductor	
Straight, 2 m	135415-0002
Right Angle, 2 m	135415-1002
Straight, 5 m	135415-0005
Right Angle, 5 m	135415-1005
Programming Module	
RST-3001 (USB - 32 bit only)	125389
RST-3002 (USB - 32 and 64 bit compatible)	125389-1000



Model Configuration Options



Model Number: IRU - 242 -
 A B

A. Output

- ☐ **3** 4-20 mA
- ☐ **5** 4-20 mA with (2) NPN outputs

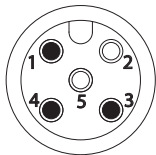
B. Cable/Microconnector

- ☐ **CL** Cable (Specify L=length in feet)
 Standard 6 feet of cable
- ☐ **M** Micro Connector

Wiring

IRU-2423-C	
Red	+24 VDC
Black	Ground
White	mA+

IRU-2423-M	
1 Brown	+24 VDC
2 White	Not used
3 Blue	Ground
4 Black	mA+
5 Grey	Not used



IRU-2425-C			
Red	+24 VDC	Orange	mA+
Black	Ground	Green	NPN2
White	NPN1		

IRU-2425-M	
1 Brown	+24 VDC
2 White	NPN 1
3 Blue	Ground
4 Black	mA+
5 Grey	NPN 2

