

# Long Range Ultrasonic Level Sensor

## Series: IRU-3430

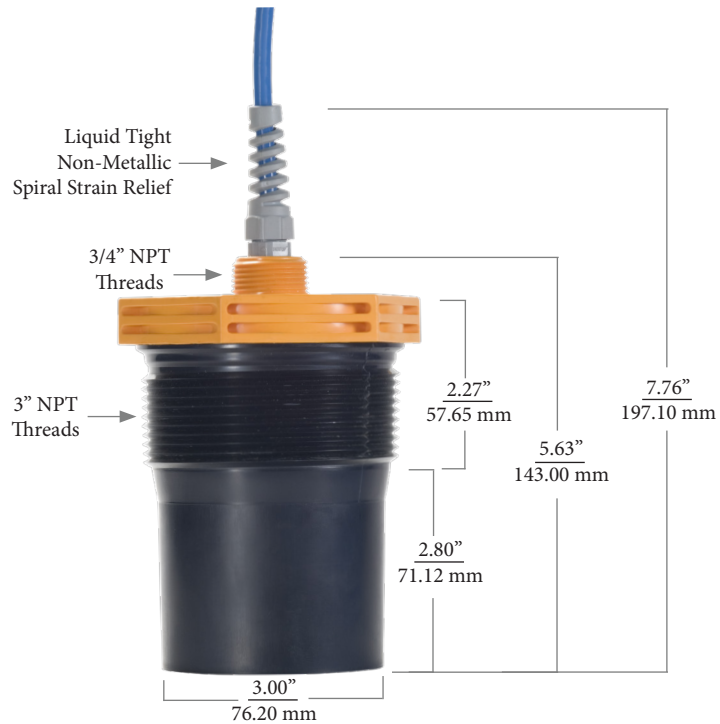


The IRU-3430 series provides a non-contact method of detecting level, presence/absence detection, volume, proximity and distance. With built in technology to compensate for unpredictable variables such as humidity, temperature and agitators, the IRU-3430 is the right sensor for your long range level measurement needs.

### Features

- AutoSense Software for hassle-free setup
  - Internal Temperature Compensation
  - Works on solids and liquids
  - Ranges up to 50 ft.
  - Class I, Division 2 Certification
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# IRU-3430 Specifications



## Performance

- Operating Range  
1.25 - 50 ft. (0.4 - 15.2 m)
- Beam Pattern: 9° off axis
- Internal Temperature Compensation
- Frequency: 43 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
- 4-20 mA with (2) NPN outputs

## Environmental

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

## Certification

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

## 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 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

- PC/PET upper housing
- PC/PET Blend Transducer

# Common Model Configurations

Model Number	Model Description
IRU-3433-C20-B81	1.25 - 50 ft range, 43 kHz, 3" MNPT, <b>4-20 mA Output, 20 ft cable</b>
IRU-3433-M-B81	1.25 - 50 ft range, 43 kHz, 3" MNPT, <b>4-20 mA Output, Microconnector</b>

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## IRU-3430 Accessories

Please order separately, by part number.

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

# Model Configuration Options

Model Number: IRU - 343      -      -B81  
                                  A      B

## A. Output

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

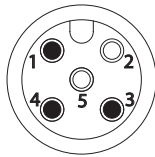
## B. Cable/Microconnector

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

## Wiring

IRU-3433-C-B81	
Red	+24 VDC
Black	Ground
White	mA+

IRU-3433-M-B81	
1 Brown	+24 VDC
2 White	Not used
3 Blue	Ground
4 Black	mA+
5 Grey	Not used



IRU-3435-C-B81			
Red	+24 VDC	Orange	mA+
Black	Ground	Green	NPN2
White	NPN1		

IRU-3435-M-B81	
1 Brown	+24 VDC
2 White	NPN 1
3 Blue	Ground
4 Black	mA+
5 Grey	NPN 2

