## **IRU-3430 Ultrasonic Level Sensor**







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 unpredictiable variables such as humidity, temperature and agitators the IRU-3430 is the right sensor for your application.

#### **Features**

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



## **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: ±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-C6	1.25 - 50 ft range, 43 kHz, 3" MNPT, <b>4-20 mA Output, 6 ft cable</b>
IRU-3433-M	1.25 - 50 ft range, 43 kHz, 3" MNPT, <b>4-20 mA Output, Microconnector</b>
IRU-3435-C6	1.25 - 50 ft range, 43 kHz, 3" MNPT, <b>4-20 mA / 2 NPN Outputs, 6 ft cable</b>
IRU-3435-M	1.25 - 50 ft range, 43 kHz, 3" MNPT, <b>4-20 mA / 2 NPN Ouputs, Microconnector</b>

## **IRU-3430 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 - 343 \_\_\_\_ - \_\_\_ B

#### A. Output

□ **3** 4-20 mA

□ **5** 4-20 mA with (2) NPN outputs

#### **B. Cable/Microconeector**

□ **CL** Cable (Specify L=length in feet) Standard 6 feet of cable

□ **M** Micro Connector

## Wiring

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

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



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

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



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