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: ±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

### 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

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

### Certification
- Class 1, Div. 2, Groups A, B, C, D
- IP65
## Common Model Configurations

<table>
<thead>
<tr>
<th>Model Number</th>
<th>Model Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>IRU-2423-C6</td>
<td>1 - 25 ft range, 69 kHz, 2&quot; MNPT, <strong>4-20 mA Output, 6 ft cable</strong></td>
</tr>
<tr>
<td>IRU-2423-M</td>
<td>1 - 25 ft range, 69 kHz, 2&quot; MNPT, <strong>4-20 mA Output, Microconnector</strong></td>
</tr>
<tr>
<td>IRU-2425-C6</td>
<td>1 - 25 ft range, 69 kHz, 2&quot; MNPT, <strong>4-20 mA / 2 NPN Outputs, 6 ft cable</strong></td>
</tr>
<tr>
<td>IRU-2425-M</td>
<td>1 - 25 ft range, 69 kHz, 2&quot; MNPT, <strong>4-20 mA / 2 NPN Outputs, Microconnector</strong></td>
</tr>
</tbody>
</table>

## IRU-2420 Accessories

Please order separately, by part number.

<table>
<thead>
<tr>
<th>Description</th>
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</tr>
</thead>
<tbody>
<tr>
<td>Over Molded Extension Cables with Foil Shield</td>
<td></td>
</tr>
<tr>
<td><strong>4 Conductor</strong></td>
<td></td>
</tr>
<tr>
<td>Straight, 2 m</td>
<td>135407-0002</td>
</tr>
<tr>
<td>Right Angle, 2 m</td>
<td>135407-1002</td>
</tr>
<tr>
<td>Straight, 5 m</td>
<td>135407-0005</td>
</tr>
<tr>
<td>Right Angle, 5 m</td>
<td>135407-1005</td>
</tr>
<tr>
<td><strong>5 Conductor</strong></td>
<td></td>
</tr>
<tr>
<td>Straight, 2 m</td>
<td>135415-0002</td>
</tr>
<tr>
<td>Right Angle, 2 m</td>
<td>135415-1002</td>
</tr>
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<td>Straight, 5 m</td>
<td>135415-0005</td>
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<tr>
<td>Right Angle, 5 m</td>
<td>135415-1005</td>
</tr>
<tr>
<td><strong>Programming Module</strong></td>
<td></td>
</tr>
<tr>
<td>RST-3001 (USB - 32 bit only)</td>
<td>125389</td>
</tr>
<tr>
<td>RST-3002 (USB - 32 and 64 bit compatible)</td>
<td>125389-1000</td>
</tr>
</tbody>
</table>
Model Configuration Options

Model Number: IRU - 242 _____ - _____

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