SURPASSING SENSITIVITY FOR THE TOUGHEST APPLICATIONS

The VRF II Series uses radio frequency to detect the presence or absence of material in a vessel. It compensates for the load of the probe and vessel environment to automatically determine the optimal operating frequency for the greatest sensitivity and stability.

FEATURES AND BENEFITS

- **Universal Input Power** provides flexibility in location of the unit
- The VRF II can automatically calibrate itself when the probe senses a large decrease in the impedance with **EZ-CAL II**
- **Adjustable Time Delay** allows the user to determine time between sensing material and the alarm state. Advanced units can permit delays when it detects the presence and absence of material or a combination.
- **Sensitivity Settings** can be selected to fit specific applications and material requirements.
- Probes have been designed with **Pro-Guard** that has the ability to ignore the effects of coatings that can adhere to the probe
- Move electronics up to 100 ft (30 m) away with the **Remote Option**
- **Standard** and **Advanced** offering enables the user to choose the option that best suits the application
- Frame designed to enable connection flexibility
  - Imperial or Metric **conduit entry options**
  - **Process Fitting** can be made to fit any connection

### STANDARD VS. ADVANCED UNITS

<table>
<thead>
<tr>
<th>STANDARD</th>
<th>ADVANCED</th>
</tr>
</thead>
<tbody>
<tr>
<td>4 Sensitivity Settings (min 1.5 pF)</td>
<td>7 Sensitivity Settings (min 0.5 pF)</td>
</tr>
<tr>
<td>Time Delay up to 6 seconds</td>
<td>Time Delay up to 150 seconds</td>
</tr>
<tr>
<td>Manual, Push Button for Test and Calibration</td>
<td>Test and Calibration with FOB</td>
</tr>
</tbody>
</table>

Universal Power

- Universal Power
- Indicator Lights
- Auxiliary Relay
VRF® II Standard Unit

**Probe Type**
- 0 = Standard Ryton
- 2 = Food Grade Polysulfone (Note 3)
- 4 = Stub Polysulfone (Note 3)
- 5 = Heavy Duty Ryton
- 9 = Heavy Duty Food Grade Polysulfone (Note 3)

**Process Fitting** (Other custom fittings available, consult factory)
- X1 = Aluminum Frame Neck, NPT 1/2" (Note 2, 4)
- A2 = 316 Stainless Steel, NPT 1-1/4" and 3/4"
- C2 = 316 Stainless Steel, NPT 1"
- D2 = 316 Stainless Steel, NPT 1-1/2"
- F2 = 316 Stainless Steel, BSP Tapered R 1-1/2"

**Base Unit**
- G = 3/4" NPT Conduit Entry with Ordinary Location Approval
- GM = M20 x 1.5" Conduit Entry with Ordinary Location Approval
- X = 3/4" NPT Conduit Entry with Hazardous Location Approval (Note 4)
- XM = M20 x 1.5" Conduit Entry with Hazardous Location Approval (Note 4)
- XT = 3/4" NPT Conduit Entry with Hazardous Location Approval - Extended Temperature Range (Note 4, 5)
- XMT = M20 x 1.5" Conduit Entry with Hazardous Location Approval - Extended Temperature Range (Note 4, 5)

**Electronics**
- A = Advanced
- R = Remote Probe Only (Remote electronics need to be ordered separately)
- S = Standard

**VRFII** (Note 1)

**Notes:**
1. Units have powder coated aluminum Housing Finish.
2. X1 Process Fitting includes a 3/4" NPT 316 stainless steel bin connector.
3. EPDM food grade gasket is standard.
4. Process Fitting X1 cannot be used with Hazardous Location Approval.
5. Extended ambient temperature range is -40º to 158º F (-40º to 70º C).

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**STANDARD UNIT DIMENSIONS**
VRF II - STANDARD CABLE UNIT

Cable Extension Length (Note 4)
- Standard Lengths - 6” increments
- Custom Lengths - 1” increments

Cable Type
- B = Cable - Stainless Steel
- C = Cable - Nylon Coated
- D = Cable - Teflon Coated
- E = Cable - Stainless Steel w/detachable weight

Probe Type
- 0 = Standard Ryton
- 2 = Food Grade Polysulfone (Note 3)
- 4 = Stub Polysulfone (Note 3)
- 5 = Heavy Duty Ryton

Process Fitting (Other custom fittings available, consult factory)
- X1 = Aluminum Frame Neck, NPT 1/4” (Note 2, 5)
- A2 = 316 Stainless Steel, NPT 1-1/4” and 3/4”
- C2 = 316 Stainless Steel, NPT 1/4”
- D2 = 316 Stainless Steel, NPT 1/2”
- F2 = 316 Stainless Steel, BSP Tapered R 1/4”

Base Unit
- G = 1/4” NPT Conduit Entry with Ordinary Location Approval
- GM = M20 x 1.5” Conduit Entry with Ordinary Location Approval
- X = 3/4” NPT Conduit Entry with Hazardous Location Approval (Note 5)
- XM = M20 x 1.5” Conduit Entry with Hazardous Location Approval (Note 5)
- XT = 3/4” NPT Conduit Entry with Hazardous Location Approval - Extended Temperature Range (Note 5, 6)
- XMT = M20 x 1.5” Conduit Entry with Hazardous Location Approval - Extended Temperature Range (Note 5, 6)

Electronics
- A = Advanced
- R = Remote Probe Only (Remote electronics need to be ordered separately)
- S = Standard

VRFII (Note 1)

Notes:
1. Units have powder coated aluminum Housing Finish.
2. X1 Process Fitting includes a 3/4” NPT 316 stainless steel bin connector.
3. EPDM food grade gasket is standard.
4. Maximum length is 540” (13.7 m), minimum length is 12” (30.5 cm). Length cannot be zero.
5. Process Fitting X1 cannot be used with Hazardous Location Approval.
6. Extended ambient temperature range is -40º to 158º F (-40º to 70º C).

STANDARD CABLE UNIT DIMENSIONS
VRF II - FOOD GRADE/3A

**3A Approval**
- A = Yes (Note 5)
- B = None

**Probe Type** (Note 4)
- 2 = Food Grade Polysulfone
- 4 = Stub Polysulfone
- 9 = Heavy Duty Food Grade Polysulfone
- A = Armored Food Grade Polysulfone

**Process Fitting** (Other custom fittings available, consult factory)
- X1 = Aluminum Frame Neck, NPT 1 1/4" (Note 3)
- X2 = 316 Stainless Steel Frame Neck, NPT 1 1/4" (Note 3, 6)
- A2 = 316 Stainless Steel, NPT 1-1/4" and 3/4"
- M2 = 316 Stainless Steel, Sanitary 1" & 1 1/2"
- N2 = 316 Stainless Steel, Sanitary 2"

**Housing Finish**
- A = Powder Coated Aluminum
- B = 304 Stainless Steel (Notes 1, 2, 6)
- C = Epoxy Painted Aluminum
- D = Electroless Nickel Plated Aluminum (Note 1)

**Base Unit**
- G = 1/4" NPT Conduit Entry with Ordinary Location Approval
- GM = M20 x 1.5" Conduit Entry with Ordinary Location Approval
- X = 1/4" NPT Conduit Entry with Hazardous Location Approval (Note 1)
- XM = M20 x 1.5" Conduit Entry with Hazardous Location Approval (Note 1)
- XT = 1/4" NPT Conduit Entry with Hazardous Location Approval - Extended Temperature Range (Note 1, 7)
- XMT = M20 x 1.5" Conduit Entry with Hazardous Location Approval - Extended Temperature Range (Note 1, 7)

**Electronics**
- A = Advanced
- R = Remote Probe Only (Remote electronics need to be ordered separately)
- S = Standard

**VRFII**

**Notes:**
1. Hazardous location approval not available with electroless nickel plated aluminum Housing Finish, stainless steel Housing Finish or the X1 Process Fitting; frame dimensions for stainless steel are not standard contact factory for drawings.
2. Function Test FOB not available with stainless steel Housing Finish.
3. X1 and X2 Process Fittings include a 3/4" NPT 316 stainless steel bin connector.
4. EPDM food grade gasket is standard.
5. 3A Approval only available with Process Fittings M2 or N2 and Probe Types 2, 4 or 9.
6. Process Fitting X2 and Stainless Steel Housing Finish can only be ordered together.
7. Extended ambient temperature range is -40°F to 158°F (-40°C to 70°C).

**3A/SANITARY DIMENSIONS**

VRF II - Flush Mount

Probe Type
7A = Dome Flush - 1/8" Thickness
7B = Dome Flush - 1/4" Thickness
7C = Dome Flush - 5/8" Thickness
7D = Dome Flush - 3/4" Thickness
8 = Flush Probe - 1/16" Thickness

Base Unit
G = 1/2" NPT Conduit Entry with Ordinary Location Approval
GM = M20 x 1.5" Conduit Entry with Ordinary Location Approval
XM = M20 x 1.5" Conduit Entry with Hazardous Location Approval
XT = 1/4" NPT Conduit Entry with Hazardous Location Approval - Extended Temperature Range
XMT = M20 x 1.5" Conduit Entry with Hazardous Location Approval - Extended Temperature Range
(Note 2)

Electronics
A = Advanced
R = Remote Probe Only (Remote electronics need to be ordered separately)
S = Standard

VRFII (Note 1)

Notes:
1. Units have powder coated aluminum Housing Finish.
2. Extended ambient temperature range is -40º to 158º F (-40º to 70º C).

DOME FLUSH DIMENSIONS

FLUSH PROBE DIMENSIONS

www.bindicator.com
VRF II - HIGH TEMPERATURE

Lag
A = None (Note 4)
B = 316 Stainless Steel - 6” length
C = 316 Stainless Steel - 12” length
D = 316 Stainless Steel - 18” length
E = 316 Stainless Steel - 24” length

Probe Type
0 = Standard Ryton®
3 = Ceramic (Note 2)
5 = Heavy Duty Ryton®
F = Fly Ash Probe
M = Mini Ceramic

Process Fitting (Other custom fittings available, consult factory)
A2 = 316 Stainless Steel, NPT 3/4” (Note 2, 3)
C2 = 316 Stainless Steel, NPT 1 1/4”
D2 = 316 Stainless Steel, NPT 1 1/2”
F2 = 316 Stainless Steel, BSP Tapered R 1 1/2”

Base Unit
G = 3/4” NPT Conduit Entry with Ordinary Location Approval
GM = M20 x 1.5” Conduit Entry with Ordinary Location Approval
X = 3/4” NPT Conduit Entry with Hazardous Location Approval
XM = M20 x 1.5” Conduit Entry with Hazardous Location Approval - Extended Temperature Range (Note 5)
XT = 3/4” NPT Conduit Entry with Hazardous Location Approval - Extended Temperature Range (Note 5)
XMT = M20 x 1.5” Conduit Entry with Hazardous Location Approval - Extended Temperature Range (Note 5)

Electronics
A = Advanced
R = Remote Probe Only (Remote electronics need to be ordered separately)
S = Standard

VRFII (Note 1)

Notes:
1. Units have powder coated aluminum Housing Finish.
2. Ceramic probe is remote only, includes built-in lag of 9 in. (22.9 cm), Lag must be 'None', and it can only be used with Process Fittings C2 through F2, J2 or K2. All material is comprised of 304 stainless steel.
3. Mini Ceramic Probe includes A2 Process Fitting.
4. Can only be used with the ceramic Probe Type
5. Extended ambient temperature range is -40º to 158º F (-40º to 70º C).
HIGH TEMPERATURE DIMENSIONS

## VRF II - EXTENSIONS

<table>
<thead>
<tr>
<th>VRFII</th>
<th>E</th>
<th>Extension Length <em>(Note 4)</em></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Standard Lengths: 6” increments</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Custom Lengths: 1” increments</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Extension</td>
</tr>
<tr>
<td></td>
<td></td>
<td>3 = Pipe, Threaded 316 Stainless Steel</td>
</tr>
<tr>
<td></td>
<td></td>
<td>5 = All welded construction, 316 Stainless Steel</td>
</tr>
<tr>
<td></td>
<td></td>
<td><strong>Probe Type</strong></td>
</tr>
<tr>
<td></td>
<td></td>
<td>0 = Standard Ryton®</td>
</tr>
<tr>
<td></td>
<td></td>
<td>2 = Food Grade Polysulfone <em>(Note 3)</em></td>
</tr>
<tr>
<td></td>
<td></td>
<td>4 = Stub Polysulfone <em>(Note 3)</em></td>
</tr>
<tr>
<td></td>
<td></td>
<td>5 = Heavy Duty Ryton®</td>
</tr>
<tr>
<td></td>
<td></td>
<td>9 = Heavy Duty Food Grade Polysulfone <em>(Note 3)</em></td>
</tr>
<tr>
<td></td>
<td></td>
<td><strong>Process Fitting</strong></td>
</tr>
<tr>
<td></td>
<td></td>
<td>C2 = 316 Stainless Steel, NPT 1 1/2”</td>
</tr>
<tr>
<td></td>
<td></td>
<td>D2 = 316 Stainless Steel NPT 1 1/2”</td>
</tr>
<tr>
<td></td>
<td></td>
<td>F2 = 316 Stainless Steel BSP Tapered R 1 1/2”</td>
</tr>
</tbody>
</table>

### Base Unit

- G = 3/4” NPT Conduit Entry with Ordinary Location Approval
- GM = M20 x 1.5” Conduit Entry with Ordinary Location Approval
- X = 3/4” NPT Conduit Entry with Hazardous Location Approval
- XM = M20 x 1.5” Conduit Entry with Hazardous Location Approval
- XT = 3/4” NPT Conduit Entry with Hazardous Location Approval - Extended Temperature Range *(Note 5)*
- XMT = M20 x 1.5” Conduit Entry with Hazardous Location Approval - Extended Temperature Range - Extended Temperature Range *(Note 5)*

### Electronics

- A = Advanced
- R = Remote Probe Only *(Remote electronics need to be ordered separately)*
- S = Standard

### VRFII *(Note 1, 2)*

Notes:
1. Units have powder coated aluminum Housing Finish.
2. Extension units do not include 3/4” NPT 316 stainless steel bin connector.
3. EPDM food grade gasket is standard.
4. Maximum extension is 180 in (4.6 m), minimum length is 3 in. (7.6 cm). Length cannot be zero.
5. Extended ambient temperature range is -40º to 158º F (-40º to 70º C).
**EXTENSION DIMENSIONS**

## VRF® II - Electronics

### VRF® II Remote Electronics

**Cable Length** (Note 1)

**Housing Finish**
- A = Powder Coated Aluminum
- B = Epoxy Painted Aluminum
- D = Electroless Nickel Plated Aluminum
  (Note 3)

**Base Unit**
- R = 3/4” NPT Conduit Entry with Ordinary Location Approval
- RX = 3/4” NPT Conduit Entry with Hazardous Location Approval
- RX T = 3/4” NPT Conduit Entry with Hazardous Location Approval
  - Extended Temperature Range (Note 2)

**Electronics**
- A = Advanced
- S = Standard

### Remote Dimensions

![Remote Dimensions Diagram]

**Notes:**
1. Maximum cable length is 100 ft (30.5 m) and is high temperature cable; leave blank if not used.
2. Standard lengths are 1 ft increments.
3. Hazardous location approval not available with electroless nickel plated aluminum Housing Finish.

### Probe Specs

<table>
<thead>
<tr>
<th></th>
<th>MAX TEMP °F (°C)</th>
<th>PROBE MATERIAL</th>
<th>PROBE LENGTH* IN (MM)</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>450 (232)</td>
<td>316 SS/Ryton’</td>
<td>15.25 (387.5)</td>
</tr>
<tr>
<td>1</td>
<td>250 (121)</td>
<td>316 SS/Kynar’</td>
<td>15.25 (387.6)</td>
</tr>
<tr>
<td>2</td>
<td>300 (149)</td>
<td>316 SS/Poly sulfone</td>
<td>15.25 (387.7)</td>
</tr>
<tr>
<td>3</td>
<td>1,000 (537)</td>
<td>316 SS/Ceramic</td>
<td>18.62 (472.9)</td>
</tr>
<tr>
<td>4</td>
<td>300 (149)</td>
<td>316 SS/Poly sulfone</td>
<td>15.25 (387.7)</td>
</tr>
<tr>
<td>5</td>
<td>450 (232)</td>
<td>316 SS/Ryton’</td>
<td>19.25 (489.0)</td>
</tr>
<tr>
<td>6</td>
<td>250 (121)</td>
<td>316 SS/Kynar’</td>
<td>19.25 (489.0)</td>
</tr>
<tr>
<td>7A</td>
<td>200 (93)</td>
<td>316 SS/Epoxy</td>
<td>Flush Mounted</td>
</tr>
<tr>
<td>8</td>
<td>200 (93)</td>
<td>316 SS/Epoxy</td>
<td>Flush Mounted</td>
</tr>
<tr>
<td>9</td>
<td>300 (149)</td>
<td>316 SS/Poly sulfone</td>
<td>19.25 (489.0)</td>
</tr>
<tr>
<td>A</td>
<td>230 (110)</td>
<td>Polysulfone covered by 316 SS sleeve and food grade epoxy</td>
<td>15.25 (387.4)</td>
</tr>
<tr>
<td>F</td>
<td>450 (232)</td>
<td>316 SS/Ryton’</td>
<td>19.25 (489.0)</td>
</tr>
<tr>
<td>J</td>
<td>200 (93)</td>
<td>316 SS/Thermoset Epoxy</td>
<td>2.33 (5.9)</td>
</tr>
<tr>
<td>M</td>
<td>830 (443)</td>
<td>316 SS/Ceramic</td>
<td>18.25 (463.6)**</td>
</tr>
<tr>
<td>T</td>
<td>250 (121)</td>
<td>316 SS/Teflon’ and Hastelloy’ C process connection</td>
<td>15.25 (387.7)</td>
</tr>
<tr>
<td>U</td>
<td>250 (121)</td>
<td>316 SS/Teflon’ and Hastelloy’ C process connection</td>
<td>19.25 (489.0)</td>
</tr>
</tbody>
</table>

*From bottom of 1/4” fitting to tip of probe; process connections may alter length of probe. See drawings for additional details.

**From 3/4” NPT**
# Probe Modifications and Options

## Probe Attachments for Heavy Duty Probes Only

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
<th>When to Use</th>
</tr>
</thead>
<tbody>
<tr>
<td>LHF110030</td>
<td>Rigid Tip Extension - 12&quot; (300 mm)</td>
<td>To extend active length for vertical mounting</td>
</tr>
<tr>
<td>LHF110031</td>
<td>Rigid Tip Extension - 24&quot; (600 mm)</td>
<td></td>
</tr>
<tr>
<td>LHF110032</td>
<td>Rigid Tip Extension - 36&quot; (900 mm)</td>
<td></td>
</tr>
<tr>
<td>LHF110033</td>
<td>Rigid Tip Extension - 48&quot; (1200 mm)</td>
<td></td>
</tr>
<tr>
<td>LHF110034</td>
<td>Rigid Tip Extension - 60&quot; (1500 mm)</td>
<td></td>
</tr>
<tr>
<td>LHF110035</td>
<td>Flexible Tip Extension - 12&quot; (300 mm)</td>
<td>To extend active length, vertical mount with excessive side loading</td>
</tr>
<tr>
<td>LHF110036</td>
<td>Flexible Tip Extension - 24&quot; (600 mm)</td>
<td></td>
</tr>
<tr>
<td>LHF110037</td>
<td>Flexible Tip Extension - 36&quot; (900 mm)</td>
<td></td>
</tr>
<tr>
<td>LHF110038</td>
<td>Flexible Tip Extension - 48&quot; (1200 mm)</td>
<td></td>
</tr>
<tr>
<td>LHF110039</td>
<td>Flexible Tip Extension - 60&quot; (1500 mm)</td>
<td></td>
</tr>
<tr>
<td>LRF110851</td>
<td>Cable/Weight Tip Extension (84&quot; maximum) Specify length in inches</td>
<td></td>
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</tbody>
</table>

## Probe Attachments

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
<th>Benefits</th>
</tr>
</thead>
<tbody>
<tr>
<td>LRF110085</td>
<td>Sensitivity Sleeve - 3/4&quot;, Standard Probe</td>
<td>Adds mechanical sensitivity by providing more surface contact between material and probe</td>
</tr>
<tr>
<td>LRF110086</td>
<td>Sensitivity Sleeve - 1 1/4&quot;, Standard Probe</td>
<td>Provides additional mechanical sensitivity to tip of probe</td>
</tr>
<tr>
<td>LRF110199</td>
<td>Sensitivity Sleeve - 1/4&quot;, Heavy Duty Probe</td>
<td>Provides additional mechanical sensitivity to tip of probe</td>
</tr>
<tr>
<td>LRF110766</td>
<td>Sensitivity Sleeve - 1/4&quot;, Heavy Duty Probe</td>
<td>Provides additional mechanical sensitivity to tip of probe</td>
</tr>
<tr>
<td>LRF120058</td>
<td>Tear Drop Sensitivity Attachment, Standard Probe - 1 1/4&quot;</td>
<td>Provides additional mechanical sensitivity to tip of probe</td>
</tr>
<tr>
<td>LRF120081</td>
<td>Tear Drop Sensitivity Attachment, Heavy Duty Probe - 1 1/4&quot;</td>
<td>Provides additional mechanical sensitivity to tip of probe</td>
</tr>
<tr>
<td>LRF120089</td>
<td>Tear Drop Sensitivity Attachment, Standard Probe - 3/4&quot;</td>
<td>Provides additional mechanical sensitivity to tip of probe</td>
</tr>
<tr>
<td>LRF120090</td>
<td>Tear Drop Sensitivity Attachment, Heavy Duty Probe - 3/4&quot;</td>
<td>Provides additional mechanical sensitivity to tip of probe</td>
</tr>
<tr>
<td>LRF120145</td>
<td>Tear Drop Sensitivity Attachment, Ceramic Probe - 1 1/4&quot;</td>
<td>Provides additional mechanical sensitivity to tip of probe</td>
</tr>
</tbody>
</table>

## Remote Cable Options

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>VRFK35208</td>
<td>Bulk Cable, Low Temperature</td>
</tr>
<tr>
<td>VRFK35209</td>
<td>Bulk Cable, High Temperature</td>
</tr>
<tr>
<td>LRF110039</td>
<td>Termination Kit</td>
</tr>
<tr>
<td>LRF110028</td>
<td>Preterminated Remote Cable, Low Temperature (in feet)</td>
</tr>
<tr>
<td>LRF110029</td>
<td>Preterminated Remote Cable, High Temperature (in feet)</td>
</tr>
</tbody>
</table>

## Probe Modifications

- Welded Tip Extension
- Bent Probe (Exact location and degree of bend required)
- Shortened Probe (Exact length required)
- Kynar® Coated Tip Extension
- Teflon Welded Tip Extension
## SPECIFICATIONS

### FUNCTIONAL

<table>
<thead>
<tr>
<th>Feature</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Power Requirements</td>
<td>Universal, 120 - 240 VAC 50/60 Hz or 24 - 48 VDC</td>
</tr>
<tr>
<td>Power Consumption - STANDARD</td>
<td>3 W AC; 3 W DC</td>
</tr>
<tr>
<td>Power Consumption - ADVANCED</td>
<td>4 W AC; 4 W DC</td>
</tr>
<tr>
<td>Fuse</td>
<td>Fast Blow, 1A 300 V (Not User Serviceable)</td>
</tr>
<tr>
<td>Ambient Temperature</td>
<td>Ordinary Location: -40º to 158º F (-40º to 70º C)</td>
</tr>
<tr>
<td></td>
<td>Hazardous Location: -4º to 158º F (-20º to 70º C)</td>
</tr>
<tr>
<td></td>
<td>Hazardous Location, Extended: -40º to 158º F (-40º to 70º C)</td>
</tr>
<tr>
<td>Process Temperature</td>
<td>-20º to 302º F (-29º to 150º C) Standard</td>
</tr>
<tr>
<td></td>
<td>Up to 500º F (Up to 260º C) with Extension 3 and Lag</td>
</tr>
<tr>
<td>Probe Temperature Range</td>
<td>-40º to 993º F (-40º to 534º C) depending on probe</td>
</tr>
</tbody>
</table>

### PERFORMANCE

<table>
<thead>
<tr>
<th>Feature</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pressure Rating</td>
<td>150 psi (10.5 kg/cm²) with ⅛” NPT; 50 psi (3.5 kg/cm²) with 1⅛” NPT</td>
</tr>
<tr>
<td>Time Delay - STANDARD</td>
<td>Field Adjustable; 0.2 - 6 seconds</td>
</tr>
<tr>
<td>Time Delay - ADVANCED</td>
<td>Field Adjustable; 0 - 150 seconds</td>
</tr>
<tr>
<td>Fail Safe</td>
<td>Field Selectable; high/low level</td>
</tr>
<tr>
<td>Sensitivity - STANDARD</td>
<td>Field Adjustable; minimum 1.5 pf</td>
</tr>
<tr>
<td>Sensitivity - ADVANCED</td>
<td>Field Adjustable; minimum 0.5 pf</td>
</tr>
<tr>
<td>Maximum Particle Size</td>
<td>⅛” (14.3 mm)</td>
</tr>
</tbody>
</table>

### PHYSICAL

<table>
<thead>
<tr>
<th>Feature</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Enclosure Material</td>
<td>Polyester or epoxy coated aluminum or 304 SS</td>
</tr>
<tr>
<td>Dual Conduit Entry</td>
<td>⅛” NPT or M20 x 1.5</td>
</tr>
<tr>
<td>Mounting Plate Material</td>
<td>Mild Steel, 304 SS</td>
</tr>
<tr>
<td>Extended Pipe Material</td>
<td>Galvanized or 316 SS</td>
</tr>
<tr>
<td>Shipping Weight</td>
<td>Integral, non-extended 10 lb (4.5 kg)</td>
</tr>
</tbody>
</table>

### AGENCY APPROVALS

#### UL (US and Canada)
- Ordinary Location, Type 4X; IP66
- Hazardous Locations, Type 4X
  - Explosion Proof, Class I, Div 1, Groups C, D
  - Dust Ignition Proof, Class II, Div 1, Groups E, F, G
  - Intrinsically Safe

#### CE
- Electromagnetic Compatibility Directive
- Low Voltage Directive

#### 3A SANITARY