**IN-LINE FLOW ALARMS**

Latching Alarm Capabilities, For Air, Water or Caustic Fluids, Unrestricted Mounting

The **SERIES HFO** In-Line Flow Alarms provide continuous monitoring and control of flow rate levels. The flow alarm can be configured to open or close a contact for an increasing or decreasing set point. Available in 1/4", 1/2", 1" or 1-1/2" female NPT process connections, in aluminum, brass or 304 SS body.

**FEATURES/BENEFITS**
- Provides two 10 A SPDT limit switches with field adjustable alarm settings for application control and integral direct reading scale provides local indication of flow rate.
- Increased application versatility with no inlet or outlet straight plumbing requirement and can be mounted horizontally, vertically, or inverted.
- Outdoor or harsh environment installation capable with rugged cast aluminum construction and NEMA 4X (IP65) enclosure.

**APPLICATIONS**
- Waste water processing
- Solar systems
- Lubrication systems
- Process control
- Drain lines
- Process control
- Drive data acquisition devices, meters or analog input cards

**SPECIFICATIONS**
- Service: Compatible gases or liquids.
- Wetted Materials: Body; Aluminum, brass or 304 SS; Seals: Buna-N or Fluoroelastomer; Magnet: PTFE coated Alnico; Other internal parts: 304 SS.
- Viscosity: 500 SSU.
- Pressure Limits: 170°F (76°C).
- Temperature Limits: Aluminum body: 600 psig (41 bar); Brass body: 3500 psig (240 bar); 304 SS body: 6000 psig (413 bar).
- Flow Rate: 0.5 to 5.0, 2 to 20, 1 to 75, 1 to 15, 5 to 55, 2 to 10, 1 to 10, 3 to 37.5, 1 to 15, 5 to 55, 2 to 20, 1 to 75, 1 to 10, 3 to 37.5, 0.5 to 5.0, 2 to 20, 1 to 75, 1 to 10, 3 to 37.5, 0.5 to 5.0, 2 to 20, 1 to 75, 1 to 10, 3 to 37.5.
- Accuracy: ±2% FS.
- Repeatability: ±1% of FS.
- Response Time: <100 msec.
- Power Requirements: 12 to 35 VDC.

**MODEL CHART**

<table>
<thead>
<tr>
<th>Model</th>
<th>Connection Size</th>
<th>Range, Water: GPM, LPM</th>
<th>Body Material</th>
</tr>
</thead>
<tbody>
<tr>
<td>HFO-2205</td>
<td>1/2” female NPT</td>
<td>0.5 to 5.0, 2 to 19</td>
<td>Brass</td>
</tr>
<tr>
<td>HFO-22315</td>
<td>3/4” female NPT</td>
<td>1 to 15, 5 to 55</td>
<td>Brass</td>
</tr>
<tr>
<td>HFO-22320</td>
<td>3/4” female NPT</td>
<td>2 to 20, 10 to 74</td>
<td>Brass</td>
</tr>
<tr>
<td>HFO-22440</td>
<td>1” female NPT</td>
<td>4 to 40, 20 to 150</td>
<td>Brass</td>
</tr>
<tr>
<td>HFO-22500</td>
<td>1-1/2” female NPT</td>
<td>6 to 50, 20 to 190</td>
<td>Brass</td>
</tr>
<tr>
<td>HFO-2320</td>
<td>1” female NPT</td>
<td>2 to 2, 1 to 8</td>
<td>304 SS</td>
</tr>
<tr>
<td>HFO-2315</td>
<td>1” female NPT</td>
<td>1 to 10, 3 to 37.5</td>
<td>304 SS</td>
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</table>

**SERIES HFT**

**IN-LINE FLOW TRANSMITTERS**

Local Flow Indication, Unrestricted Mounting, 4-20 mA, 0-5 V, and 1-5 V Output

The **SERIES HFT** In-Line Transmitters provide continuous monitoring of flow rate levels via a direct reading in-line flowmeter with electronics to provide proportional 4-20 mA, 0-5 and 1-5 VDC analog outputs.

**FEATURES/BENEFITS**
- Provides analog output to monitor application flow and integral direct reading scale to provide local indication of flow rate.
- Increased application versatility with no inlet or outlet straight plumbing requirement and can be mounted horizontally, vertically, or inverted.
- Outdoor or harsh environment installation capable with rugged cast aluminum construction and NEMA 4X (IP65) enclosure.

**APPLICATIONS**
- Waste water processing
- Solar systems
- Lubrication systems
- Process control
- Drain lines
- Drive data acquisition devices, meters or analog input cards

**SPECIFICATIONS**
- Service: Compatible gases or liquids.
- Wetted Materials: Body; Aluminum, brass or 304 SS; Seals: Buna-N or Fluoroelastomer; Magnet: PTFE coated Alnico; Other internal parts: 304 SS.
- Viscosity: 500 SSU.
- Pressure Limits: 170°F (76°C).
- Temperature Limits: Aluminum body: 600 psig (41 bar); Brass body: 3500 psig (240 bar); 304 SS body: 6000 psig (413 bar).
- Flow Rate: 0.5 to 5.0, 2 to 20, 1 to 75, 1 to 15, 5 to 55, 2 to 10, 1 to 10, 3 to 37.5, 1 to 15, 5 to 55, 2 to 20, 1 to 75, 1 to 10, 3 to 37.5, 0.5 to 5.0, 2 to 20, 1 to 75, 1 to 10, 3 to 37.5, 0.5 to 5.0, 2 to 20, 1 to 75, 1 to 10, 3 to 37.5, 0.5 to 5.0, 2 to 20, 1 to 75, 1 to 10, 3 to 37.5.
- Accuracy: ±2% FS.
- Repeatability: ±1% of FS.
- Response Time: <100 msec.
- Power Requirements: 12 to 35 VDC.

**MODEL CHART**

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<td>6 to 50, 20 to 190</td>
<td>Brass</td>
</tr>
<tr>
<td>HFT-3200</td>
<td>1/2” female NPT</td>
<td>1 to 10, 3 to 37.5</td>
<td>304 SS</td>
</tr>
<tr>
<td>HFT-3210</td>
<td>1/2” female NPT</td>
<td>1 to 10, 3 to 37.5</td>
<td>304 SS</td>
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</tbody>
</table>

USA: California Proposition 65
⚠ WARNING: Cancer and Reproductive Harm - www.P65Warnings.ca.gov