**SERIES HFO**  
**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
- Lubrication systems
- Process control
- Solar systems
- Drain lines
- Pump testing

**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.
- Temperature Limits: 170°F (76°C).
- Pressure Limits: Aluminum body: 600 psig (41 bar); Brass body: 3500 psig (240 bar); 304 SS body: 6000 psig (413 bar).
- Latching Alarm Capabilities.
- For Air, Water or Caustic Fluids.
- Unrestricted Mounting.
- 4-20 mA, 0-5 and 1-5 V Output.
- Shipping Weight: 1/4” female NPT models: 3 lb (1.4 kg); 3/4” to 1-1/2” female NPT models: 4.5 lb (2.0 kg); 1-1/2” female NPT models: 12 lb (5.4 kg).

**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-2315</td>
<td>3/4” female NPT</td>
<td>1 to 15, 5 to 55</td>
<td>Brass</td>
</tr>
<tr>
<td>HFO-2320</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-22550</td>
<td>1-1/2” female NPT</td>
<td>6 to 50, 20 to 190</td>
<td>Brass</td>
</tr>
<tr>
<td>HFO-23202</td>
<td>1/2” female NPT</td>
<td>2 to 2, 1 to 6</td>
<td>304 SS</td>
</tr>
<tr>
<td>HFO-23210</td>
<td>1/2” female NPT</td>
<td>1 to 10, 3 to 37.5</td>
<td>304 SS</td>
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**USA: California Proposition 65**

**WARNING:** Cancer and Reproductive Harm - www.P65Warnings.ca.gov

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**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
- Lubrication systems
- Process control
- Solar systems
- Drain lines
- Pump testing
- 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.
- Temperature Limits: 170°F (76°C).
- Pressure Limits: Aluminum body: 600 psig (41 bar); Brass body: 3500 psig (240 bar); 304 SS body: 6000 psig (413 bar).
- Power Requirements: 12 to 35 VDC.  
- Accuracy: ±2% FS.
- Repeatability: ±1% of FS.
- Response Time: < 100 ms.
- Output Signal: 4 to 20 mA; 0 to 5 V; 1 to 5 V.
- Shipping Weight: 1/4” to 1/2” female NPT models: 3 lb (1.4 kg); 3/4” to 1-1/2” female NPT models: 4.5 lb (2.0 kg); 1-1/2” female NPT models: 12 lb (5.4 kg).

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<tr>
<td>HFT-3202</td>
<td>1/2” female NPT</td>
<td>2 to 2, 1 to 6</td>
<td>304 SS</td>
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