**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 combines a direct reading HF flowmeter with electronics to provide a proportional analog output of 4 to 20 mA, 0 to 5 V, and 1 to 5 VDC. Use the output to drive data acquisition devices, meters, or analog input cards. The entire assembly is housed in a rugged cast aluminum NEMA 4X (IP66) enclosure. The unit can be installed in outdoor applications or harsh environments where liquid tight seals are required. The flow transmitter does not require input or output straight plumbing, and can be mounted in any orientation.

Aluminum body for air or other non-corrosive gases: 600 psig (41 bar)

Brass body for water based fluids (non-steam): 3500 psig (240 bar)

**SPECIFICATIONS**

- **Service**: Compatible gases or liquids.
- **Wetted Materials**: End ports: PVC; Wedge element: PVC; Pressure sensor: polyetherimide.
- **Flow Measuring Ranges**: 0.5 to 5, 1 to 15 GPM
- **Pressure Limits**: 125 psig (8.6 bar).
- **Accuracy**: ±2% of full-scale.
- **Response Time**: Indication of no less than 90% of any step change within <500ms.
- **Power Requirements**: 12 to 35 VDC.
- **Output Signal**: 4 to 20 mA (optional 0 to 5 VDC or 0 to 10 VDC consult factory).
- **Maximum Current Consumption**: 25 mA.
- **Minimum Load Resistance**: 1000 O.
- **Maximum Transmission Distance**: 200 ft.
- **Resolution**: Infinite.
- **Temperature Limits**: 170°F (76°C).
- **Enclosure Rating**: NEMA 4X (IP66).
- **Enclosure Rating**: NEMA 4 (IP56).
- **Maximum Particulate Size**: 200 microns.
- **Weight**: 1 lb (0.45 kg).

**Series DFT**

**Inline Differential Flow Transmitter**

Low Cost, Compact and Rugged Design

Series DFT Flow Transmitters use a segmented wedge differential producer to measure flow rates as related to pressure differential. The sensor can be mounted in any position and allows the designer to install it in any orientation; horizontal, vertical or inverted. The sensor is offered with three flow measuring ranges: 0.5 to 5, 1 to 15 GPM and three electrical output signals: 4 to 20 mA, 1 to 5 VDC and 1 to 10 VDC. The sensor offers low-cost precision with a measuring accuracy of ±2% of full-scale range and repeatability of 0.5%.

<table>
<thead>
<tr>
<th>Model</th>
<th>Flow Ranges GPM (LPM)</th>
<th>Nominal Port Size (NPT Female)</th>
<th>Resolution</th>
<th>Temperature Limits</th>
<th>Enclosure Rating</th>
</tr>
</thead>
<tbody>
<tr>
<td>DFT-PNW1-01C1</td>
<td>0.5-5 (1.9-18.9)</td>
<td>3/8”</td>
<td>250</td>
<td>170°F (76°C)</td>
<td>NEMA 4X (IP66)</td>
</tr>
<tr>
<td>DFT-PNW1-02C1</td>
<td>0.5-10 (3.8-37.9)</td>
<td>3/8”</td>
<td>250</td>
<td>170°F (76°C)</td>
<td>NEMA 4 (IP56)</td>
</tr>
<tr>
<td>DFT-PNW1-03C1</td>
<td>1-15 (3.8-56.6)</td>
<td>1/2”</td>
<td>250</td>
<td>170°F (76°C)</td>
<td>NEMA 4X (IP66)</td>
</tr>
<tr>
<td>DFT-PNW1-01C2</td>
<td>1-10 (3.8-37.9)</td>
<td>3/8”</td>
<td>250</td>
<td>170°F (76°C)</td>
<td>NEMA 4 (IP56)</td>
</tr>
<tr>
<td>DFT-PNW1-02C2</td>
<td>1-15 (3.8-56.6)</td>
<td>1/2”</td>
<td>250</td>
<td>170°F (76°C)</td>
<td>NEMA 4X (IP66)</td>
</tr>
<tr>
<td>DFT-PNW1-03C2</td>
<td>1-15 (3.8-56.6)</td>
<td>1/2”</td>
<td>250</td>
<td>170°F (76°C)</td>
<td>NEMA 4 (IP56)</td>
</tr>
<tr>
<td>DFT-PNW1-01C3</td>
<td>1-15 (3.8-56.6)</td>
<td>1/2”</td>
<td>250</td>
<td>170°F (76°C)</td>
<td>NEMA 4X (IP66)</td>
</tr>
<tr>
<td>DFT-PNW1-02C3</td>
<td>1-15 (3.8-56.6)</td>
<td>1/2”</td>
<td>250</td>
<td>170°F (76°C)</td>
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</tr>
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<td>DFT-PNW1-03C3</td>
<td>1-15 (3.8-56.6)</td>
<td>1/2”</td>
<td>250</td>
<td>170°F (76°C)</td>
<td>NEMA 4X (IP66)</td>
</tr>
</tbody>
</table>

**Output Signal**: 4 to 20 mA; 0 to 5 V; 1 to 5 V

**Temperature Limits**: 170°F (76°C)

**Pressure Limits**: See chart.

**Power Requirements**: 12 to 35 VDC.

**Enclosure Rating**: NEMA 4X (IP66).

**FOR NIST traceable calibration certificate, use order code NISTCAL-FT1.**