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. 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)
Wetted Parts: Aluminum, PTFE coated Alnico, 304 SS and Buna-N

Brass body for water based fluids (non-steam): 3500 psig (240 bar)
Wetted Parts: Brass, PTFE coated Alnico, 304 SS and Buna-N

Series DFT Flow Transmitters

In-Line 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 to monitor process fluids. The segmented wedge provides a simple and reliable restriction for sensing flow as related to pressure differential. The sensor offers low-cost precision with a measuring accuracy of ±2% of full-scale range and repeatability of ±0.5%.

SPECIFICATIONS
Service: Compatible liquids.
Wetted Materials: End ports: PVC; Wedge element: PVC; Pressure sensor: polyethermide.
Flow Measuring Ranges: 0.5 to 5, 1 to 10, 1 to 15 GPM and three electrical output signals: 4 to 20 mA, 0 to 5 V; 1 to 5 V.
Accuracy: ±2% of full-scale.
Repeatability: ±0.5% 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)

Model | Flow Ranges GPM (NPT Female) | Nominal Port Size (NPT Female) | Weight
--- | --- | --- | ---
DFT-PNW1-01C1 | 0.5-5 (1.9-18.9) | 3/8" | 1 lb (0.45 kg)
DFT-PNW1-02C1 | 0.5-5 (1.9-18.9) | 1/2" | 1 lb (0.45 kg)
DFT-PNW1-03C1 | 0.5-5 (1.9-18.9) | 3/4" | 1 lb (0.45 kg)
DFT-PNW1-01C2 | 1-10 (3.8-37.9) | 3/8" | 1 lb (0.45 kg)
DFT-PNW1-02C2 | 1-10 (3.8-37.9) | 1/2" | 1 lb (0.45 kg)
DFT-PNW1-03C2 | 1-10 (3.8-37.9) | 3/4" | 1 lb (0.45 kg)
DFT-PNW1-01C3 | 1-15 (3.8-55) | 3/8" | 1 lb (0.45 kg)
DFT-PNW1-02C3 | 1-15 (3.8-55) | 1/2" | 1 lb (0.45 kg)
DFT-PNW1-03C3 | 1-15 (3.8-55) | 3/4" | 1 lb (0.45 kg)

Maximum Current Consumption: 25 mA.
Minimum Load Resistance: 1000 Ω.
Maximum Transmission Distance: 200 ft.
Resolution: Infinite.
Temperature Limits: 170°F (76°C).
Pressure Limits: 125 psig (8.6 bar).
Enclosure Rating: NEMA 4 (IP56).
Maximum Particulate Size: 200 microns.
Weight: 1 lb (0.45 kg).

OPTION
For NIST traceable calibration certificate, use order code NISTCAL-FT1.