Flow Transmitters,
In-Line

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)
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 HFT

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

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.
Accuracy: ±2.5% over center third of the measuring range.
Repeatability: ±1% of full-scale.

Response Time: < 100 msec.
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).
Shipping Weight: 1/4 to 1/2” female NPT models: 3 lb (1.4 kg); 3/4 to 1” female NPT models: 4.5 lb (2.0 kg); 1-1/2” female NPT models: 12 lb (5.4 kg).

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 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 10 and 1 to 15 GPM and three electrical output signals: 4 to 20 mA, 1 to 5 V, and 1 to 15 V.

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.
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 consult factory).
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).
Maximum Particulate Size: 200 microns.
Weight: 1 lb (0.45 kg).