

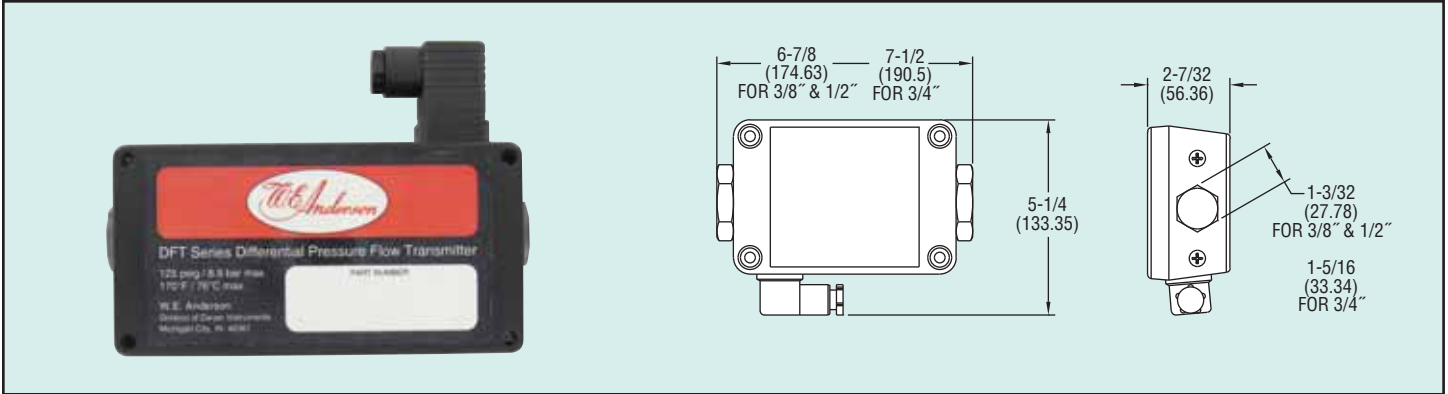


Series  
DFT

# Inline Differential Flow Transmitter

Low Cost, Compact and Rugged Design

Flow



**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: 0.5-5, 1-10 and 1-15 GPM and three electrical output signals: 4-20 mA, 1-5 VDC and 0-10 VDC. The sensor offers low-cost precision with a measuring accuracy of  $\pm 2\%$  of full-scale range and repeatability of  $\pm 0.5\%$ .

### SPECIFICATIONS

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

Model	Flow Ranges GPM (LPM)	Nominal Port Size (NPT Female)	Electrical Output
DFT-PNW1-01A1	0.5-5 (1.9-18.9)	3/8"	0-5 VDC
DFT-PNW1-01B1	0.5-5 (1.9-18.9)	3/8"	0-10 VDC
DFT-PNW1-01C1	0.5-5 (1.9-18.9)	3/8"	4-20 mA
DFT-PNW1-02A1	0.5-5 (1.9-18.9)	1/2"	0-5 VDC
DFT-PNW1-02B1	0.5-5 (1.9-18.9)	1/2"	0-10 VDC
DFT-PNW1-02C1	0.5-5 (1.9-18.9)	1/2"	4-20 mA
DFT-PNW1-03A1	0.5-5 (1.9-18.9)	3/4"	0-5 VDC
DFT-PNW1-03B1	0.5-5 (1.9-18.9)	3/4"	0-10 VDC
DFT-PNW1-03C1	0.5-5 (1.9-18.9)	3/4"	4-20 mA
DFT-PNW1-01A2	1-10 (3.8-37.9)	3/8"	0-5 VDC
DFT-PNW1-01B2	1-10 (3.8-37.9)	3/8"	0-10 VDC
DFT-PNW1-01C2	1-10 (3.8-37.9)	3/8"	4-20 mA
DFT-PNW1-02A2	1-10 (3.8-37.9)	1/2"	0-5 VDC
DFT-PNW1-02B2	1-10 (3.8-37.9)	1/2"	0-10 VDC
DFT-PNW1-02C2	1-10 (3.8-37.9)	1/2"	4-20 mA
DFT-PNW1-03A2	1-10 (3.8-37.9)	3/4"	0-5 VDC
DFT-PNW1-03B2	1-10 (3.8-37.9)	3/4"	0-10 VDC
DFT-PNW1-03C2	1-10 (3.8-37.9)	3/4"	4-20 mA
DFT-PNW1-01A3	1-15 (3.8-56.8)	3/8"	0-5 VDC
DFT-PNW1-01B3	1-15 (3.8-56.8)	3/8"	0-10 VDC
DFT-PNW1-01C3	1-15 (3.8-56.8)	3/8"	4-20 mA
DFT-PNW1-02A3	1-15 (3.8-56.8)	1/2"	0-5 VDC
DFT-PNW1-02B3	1-15 (3.8-56.8)	1/2"	0-10 VDC
DFT-PNW1-02C3	1-15 (3.8-56.8)	1/2"	4-20 mA
DFT-PNW1-03A3	1-15 (3.8-56.8)	3/4"	0-5 VDC
DFT-PNW1-03B3	1-15 (3.8-56.8)	3/4"	0-10 VDC
DFT-PNW1-03C3	1-15 (3.8-56.8)	3/4"	4-20 mA