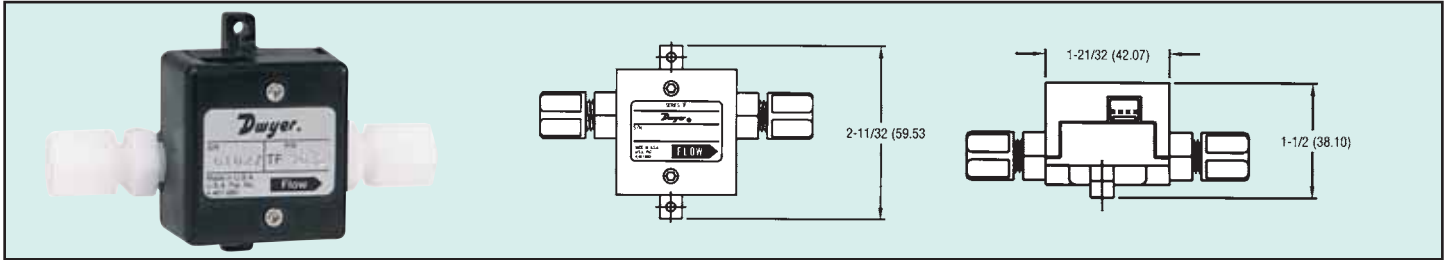




Series
TF

Turbine Flow Sensor

0 to 5 VDC Output, Liquid or Gas Models



Series TF Turbine Flow Sensors are suitable for a wide variety of industrial, commercial and laboratory flow applications. Sensors use a turbine wheel and electro-optical detection to convert flow rates into a linear 0 to 5 VDC signal for recording and datalogging. Models for use with liquids also provide a pulsed output for flow totalizing – see model TM2 on page 188 for a compatible display.

| Model Number | Range | Connection |
|---------------------------------|----------------|------------|
| Flow Sensors for liquids | | |
| TF1032 | 0.1 to 2.0 LPM | 1/4" OD |
| TF1053 | 1 to 10 LPM | 3/8" OD |
| TF1062 | 1 to 10 GPH | 3/8" OD |
| TF1072 | 4 to 100 GPH | 3/8" OD |
| Flow Sensors for gases | | |
| TF2110 | 2.0 to 10 LPM | 1/4" OD |
| TF2120 | 4.0 to 20 LPM | 3/8" OD |
| TF2130 | 10 to 50 LPM | 3/8" OD |
| TF2140 | 20 to 100 LPM | 3/8" OD |

SPECIFICATIONS

Service: Clean gases or clean low viscosity liquids (≤ 10 centistokes) depending on model.

Wetted Materials: 40% glass filled polyphenylene sulfide PPS sensor, and fittings, sapphire bearing, Viton® O-ring.

Accuracy: $\pm 3\%$ full scale

Linearity: $\pm 3\%$ full scale.

Repeatability: $\pm 0.2\%$ full scale (liquid models), $\pm 1\%$ full scale (gas models).

Temperature Limits: 122°F (50°C). Temperature Sensitivity: $\pm 0.2\%$ per °C.

Accessories

- No. TF01, 120 VAC, 60 Hz power supply/adaptor for liquid flowmeters
- No. TF02, 240 VAC, 50 Hz power supply/adaptor for liquid flowmeters
- No. TF03, 120 VAC, 60 Hz power supply/adaptor for gas flowmeters
- No. TF04, 240 VAC, 50 Hz power supply/adaptor for gas flowmeters
- No. TF05, Optional connecting cable for liquid flowmeters
- No. TF06, Optional connecting cable for gas flowmeters

Pressure Limits:

100 psi (6.89 bar) at 20°C (liquid models); 40 psi at 20°C (gas models). Pressure Sensitivity: $\pm 0.07\%$ per mm Hg (for air at 1 to 3 atm).

Supply Voltage: 12.5 \pm 2 VDC, 30 mA (connecting cable or cable/adaptor sold separately).

Output: 0 to 5 VDC (gas models), 0 to 5 VDC and 7.5 VDC peak pulse output, 0 to 400 pps typical (liquid models).

Weight: 1 lb (0.5 kg).

Agency Approvals: CE.