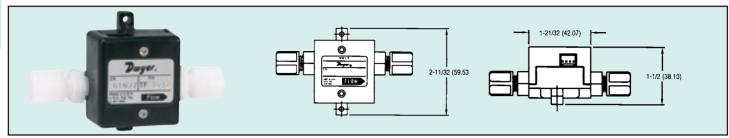


Series

Turbine Flow Sensor O to 5 VDC Output, Liquid or Gas Models

CE



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 below.

STOCKED MODELS in bold

Model Number	Range	Connection
Flow Sensors for liquids		
TF1032 TF1053 TF1062 TF1072	0.1 to 2.0 LPM 1 to 10 LPM 1 to 10 GPH 4 to 100 GPH	½" OD %" OD %" OD %" OD
Flow Sensors for gases		
TF2110 TF2120 TF2130 TF2140	2.0 to 10 LPM 4.0 to 20 LPM 10 to 50 LPM 20 to 100 LPM	%" OD %" OD %" OD %" OD

SPECIFICATIONS

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

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

Accuracy: ±3% full scale Linearity: ±3% full scale.

Repeatability: ±0.2% full scale (liquid models), ±1% full scale (gas models).

Temperature Limits: 122°F (50°C). Temperature Sensitivity: ±0.2% per °C.

Pressure Limits:

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

Supply Voltage: 12.5 ±2 VDC, 30 mA (connecting cable or cable/adapter 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.

Accessories

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

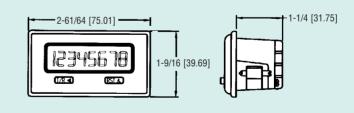


Model TM2

Flow Totalizer Pulse Input, 8-digit LCD Display







Recommended Panel Cutout: 2-43/64 [67.87] x 1-19/64 [32.94]

Monitor flow rate or total flow with Model TM2 Flow Totalizer. Unit features a four digit flow rate display and an eight digit totalizing display with a programmable, five position decimal point. Easily toggle between rate and total with front-panel push-button. Use scaling factor to define flow rate in engineering units such as ml/min, l/min, or gal/hr.

STOCKED MODELS

TM2 **Accessory** TM25, Replacement 3V lithium battery

SPECIFICATIONS

Input: 7.5 VDC max. pulse. Accuracy: ±0.2%.

Input Impedance: 27 k Ω at 3 VDC.

Totalizer Type: UP count. Rate Indication Type: Frequency. Count Input Speed: 10 kHz @

50% duty cycle. Totalizing Range: 0.0001 to

100.0000 with five position decimal point.

Rate Indication Range: 0.001 to 9999 (five position decimal point).

Update Time: 0.7 seconds. Display: 8-digit LCD, 7/6" H. Temperature Limits: 32 to 131°F (0 to 55°C).

Housing Material: Cycolac X-17. Power: One 3V lithium battery (included).

Average Battery Life: Approximately 5 years. Weight: 1 lb (0.5 kg). Agency Approvals: CE.