



PVDF-X Flow Sensor

The Equflow PVDF-X Flow Sensor is designed for long-term use with a robust housing and threaded process connectors. Key characteristics include infrared (IR) turbine rotor reflection, resulting in accurate and repeatable flow measurements, high chemical resistance, and a high-resolution square wave output. This sensor is suitable for a wide range of applications, including neutral, corrosive, aqueous, and opaque liquids, making them an excellent choice for various industries.

Features & Benefits

- Infrared (IR) turbine rotor reflection results in accurate and repeatable flow measurements
- PVDF parts for chemical and corrosive resistance
- High resolution square wave output
- Wetted parts of PVDF, ruby bearing, and FPM (Viton®) sealing
- Threaded process connectors

SPECIFICATIONS	0045	0085	0250
Inner diameter	4.6 mm (0.18")	9.3 mm (0.37")	25.4 mm (1")
Linear flow range	0.1-2.0 L/min (0.03-0.53 GPM)	1.0-20.0 L/min (0.26-5.28 GPM)	5.0 - 200.0 L/min (1.32 - 52.83 GPM)
Minimum flow	0.03 L/min (0.008 GPM)	0.5 L/min (0.13 GPM)	3.0 L/min (0.79 GPM)
Accuracy	1% of reading	1% of reading	5% of reading
Repeatability	< 0.15%	< 0.15%	< 0.15%
Wetted materials	PVDF, Ruby	PVDF, Ruby	PVDF, Ruby
O-ring seals	Viton or EPDM	Viton or EPDM	Viton or EPDM
Process connection	¼" BSP	⅜" BSP	1" BSP
Liquid temperature	-20°C to 80°C (-4°F to 176°F)	-20°C to 80°C (-4°F to 176°F)	-20 to +80 (-4°F to 176°F)
Max. pressure at 20°C (68°F)	25 Bar (362 psi)	20 Bar (290 psi)	10 Bar (145 psi)
Viscosity	0.8-10 cP	0.8-10 cP	0.8-10 cP
Approx. K-factor (P = pulses)	100,000 P/L (377,000 P/G)	4,800 P/L (18,000 P/G)	250 P/L (940 P/G)
Power supply	5-24 Vdc	5-24 Vdc	5-24 Vdc
Output signal	5-24 V SQW	5-24 V SQW	5-24 V SQW
Power consumption	34 mA at 5 V	34 mA at 5 V	34 mA at 5 V
Default cable	PVC1 m (39.37")	PVC1 m (39.37")	PVC1 m (39.37")

All data are derived from tests conducted under ideal laboratory conditions using water. Specifications may vary depending on local process conditions.

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