



PVDF Fixed Flow Sensor

The Equflow PVDF Fixed Flow Meter is our most cost-effective solution for long-term use. It utilizes an infrared (IR) turbine rotor reflection mechanism, ensuring precise and consistent flow readings. Constructed from PVDF (polyvinylidene fluoride) material, it can handle a wide range of liquids, including corrosive and aggressive substances. With its small size and easy installation process, the sensor adapts seamlessly to various applications. Additionally, it generates a high-resolution square wave output, providing detailed flow data.

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 (10.64 - 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
Process connection	7 mm hose barb or 1/8" NPT	12 mm hose barb or 13 mm hose barb	32 mm hose barb
Recommended tubing size for hose barb	6 mm (1/4") ID	9 mm (3/8") ID or 12.5 mm (1/2") ID	30 mm (1 1/4") ID
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 (938 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	PVC 1 m (39.37")	PVC 1 m (39.37")	PVC 1 meter (39.37")

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

Features & Benefits

- Infrared (IR) turbine rotor reflection results in accurate and repeatable flow measurements
- High resolution square wave output
- Flexible use, easy to install
- Small in size
- USP Class VI PVDF material for high chemical and corrosive resistance
- Also compatible with opaque liquids



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