Type 2000 Micro Flow Rotor Sensor



Product description

The type 2000 Micro Flow Rotor Sensor is constructed of Polyphenylene Sulfide (PPS) which provides high material strength. The 2000 offers two flow ranges starting at 0.11 or 1.13 lpm (0.03 or 0.3 gpm), for clean process liquids, regardless of fluid color or opacity.

This sensor can be connected to flexible tubing or rigid pipe, and uses standard hardware for mounting. Only one moving part and a low pressure drop across the sensor reduces operating costs and maintenance requirements.

Features

- Operating range 0.11 to 12.11 lpm (0.03 to 3.2 U.S. gpm)
- · Simple mounting
- $\frac{1}{2}$ in. NPT or ISO threads for simple pipe or tubing connection
- Measures opaque and transparent liquids
- · Low pressure drop
- Standard cable 7.6 m (25 ft)

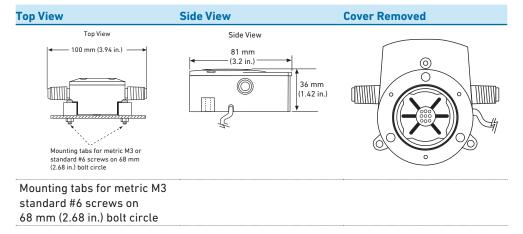
Applications

- Coolant Flow
- Dosing
- Batch Dispensing
- Not recommended for Strong Oxidizers

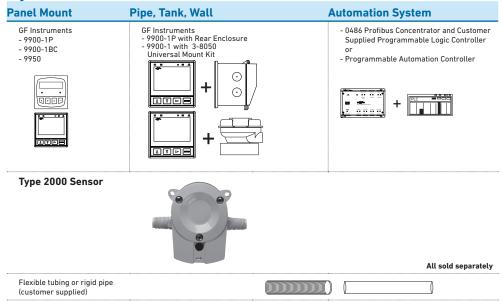
Technical Details

General						
Operating Range	-11 & -12 version	0.11 to 2.6	lpm	0.03 to 0.7 U.S. gpm		
	-21 & -22 version	1.13 to 12.1	1 lpm	0.3 to 3.2 U.S gpm		
Linearity	±1.2% of full range					
Repeatability	±0.5% of full range					
Connections	¼ in. NPT (male) or	¼ in. NPT (male) or ISO 7/1 - R¼ (male)				
Wetted Materials						
Sensor Body and Cover	40% glass filled Polyphenylene Sulfide (PPS)					
Rotor	PEEK®, natural, unfilled					
Cover O-ring	FKM					
Electrical						
Power	5 to 24 VDC ±10%, regulated, 10 mA max.					
Output type	Open-collector, sinking, 20 mA max.					
Cable Length	7.6 m (25 ft), can be extended up to 300 m (1000 ft)					
Cable type	2-conductor twiste	2-conductor twisted pair w/shield, 22 AWG				
Max. Temperature/Pressure I	Rating					
	0 °C to 80 °C @ 5.5	bar max.	32 °F to	176 °F @ 80 psi max		
Shipping Weight						
	0.03 kg		0.7 lb			
Standards and Approvals						
	Manufactured under ISO 9001, ISO 14001 and ISO 45001 Not available in EU					

Dimensions



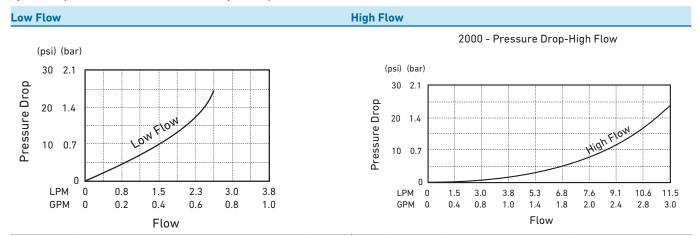
System Overview



Pressure-temperature diagram

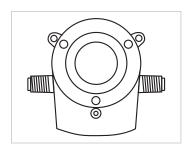
Note

The pressure-temperature diagrams are speciafically for the GF sensor. During system designs the specifications of all components must be considered. In the case of a metal piping system, a plastic sensor will reduce the system specification



Ordering Information

Mfr. Part No.	Code	Flow Range	End Fittings
3-2000-11	198 822 000	Low flow, 0.11 to 2.61 lpm (0.03 to 0.7 gpm)	1/4 NPT threads
3-2000-12	198 822 001	Low flow, 0.11 to 2.61 lpm (0.03 to 0.7 gpm)	ISO 7/1-R1/4 threads
3-2000-21	198 822 002	High flow, 1.13 to 12.11 lpm (0.3 to 3.2 gpm)	1/4 NPT threads
3-2000-22	198 822 003	High flow, 1.13 to 12.11 lpm (0.3 to 3.2 gpm)	ISO 7/1-R1/4 threads



Datasheet

Accessories

Mfr. Part	Code	Description
3-2000.390	159 000 248	Replacement rotor kit
1220-0029	198 820 049	Cover O-ring
2450-0620	198 820 051	Cover screw, each
5523-0222	159 000 392	Cable (per foot), 2 cond. w/shield, 22 AWG
3-8050-1	159 000 753	Universal junction box

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