Signet 2000 Micro Flow Rotor Sensor



The Signet 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
- 1/4 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

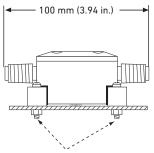
Specifications

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 12.11 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 ISO 7/1 - R1/4 (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 (1,000 ft)				
Cable Type	2-conductor twisted pair w/shield, 22 AWG				
Max. Temperature/Pressure 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 for Quality and ISO 14001 for Environmental Management and OHSAS 18001 for Occupational Health and Safety				

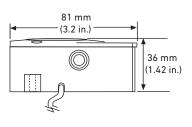
See Temperature and Pressure graphs for more information.

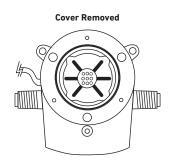
Dimensions

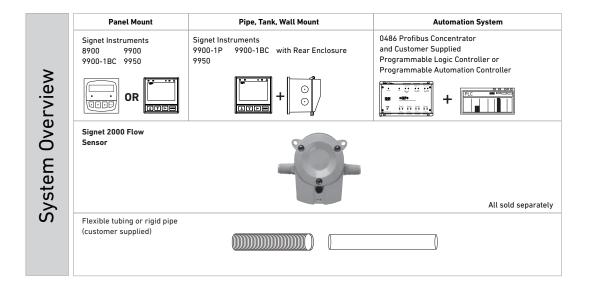
Top View



Mounting tabs for metric M3 or standard #6 screws on 68 mm (2.68 in.) bolt circle Side View







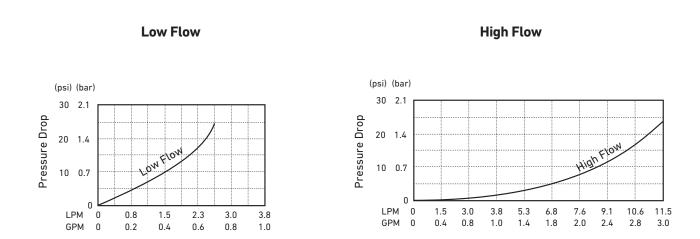
Application Tips

- For use in clean fluids no suspended solids.
- Use the mounting tabs to secure the sensor to a flat horizontal surface, ±30°.
- Verify chemical compatibility before installation.

Temperature/Pressure Graphs

Note:

The pressure/temperature graphs are specifically for the Signet sensor. During system design the specifications of all components must be considered. In the case of a metal piping system, a plastic sensor will reduce the system specification.



Please refer to Wiring, Installation, and Accessories sections for more information.

Ordering Information

		Mfr. Part No.	Code	Flow Range	End Fittings	
	Micro Flow Rotor Flow Sensor					
	m (()))	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	

Accessories and Replacement Parts

Mfr. Part No.	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