

# Signet 5090 Sensor-Powered Flow Monitor

Member of the ProPoint® Family of Monitors



Sensor Powered - external power not required.

## Features

- High visibility analog display
- Sensor-powered flow rate indication up to 60 m (200 ft) from sensor installation
- Wide flow range: 1 to 20 ft/s in pipe sizes DN15 to D900 (1/2 to 36 in.)
- Single-point calibration from front panel
- Factory Mutual (FM) approved for intrinsic safety in Classes I, II and III, Division I

## Description

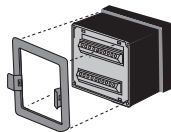


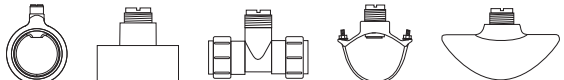
The Signet 5090 Sensor Powered Flow Monitor is the simplest and most economical instrument in the Signet offering. It features a balanced-spring meter movement that is powered by the AC output of the Signet 515 Paddlewheel Flow Sensor. No additional power source is required.

This unique system is suitable for a wide range of flow rates, and is Factory Mutual (FM) approved for intrinsic safety without the need for barriers. Packaged in a 1/4 DIN housing with a NEMA 4X/IP65 front panel, the 5090 is the first choice for simple flow monitoring, even in the most demanding industrial environments.

## Applications

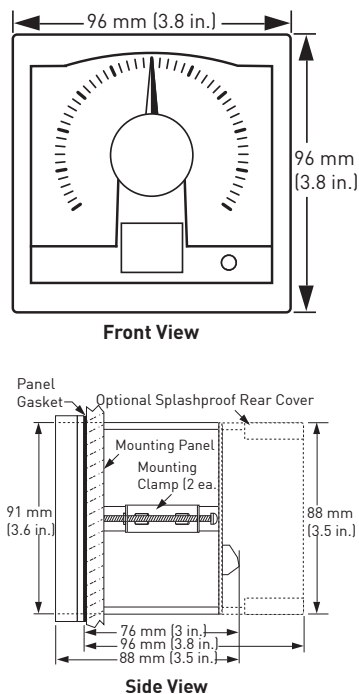
- Filtration Systems
- Hazardous Locations
- Remote Flow Monitoring
- Process Cooling Water
- Distribution Systems
- HVAC
- Process Flow Monitoring

## System Overview

<p><b>Panel Mount</b>  <b>Signet Flow Instrument</b>          (includes mounting bracket and panel gasket)</p> 	
<p>Signet 515 Flow Sensor only          (sold separately)</p>	
<p>Signet Fittings          (sold separately)</p>	



## Dimensions



## Specifications

### General

Operating Range:

- 0.3 to 6 m/s (1 to 20 ft/s) in pipes  
DN15 to DN900 (½ to 36 in.)
- 7 ft/s (min. full scale range)

Reversible dial face kit includes ranges 0 to 2, 4, 6, 8 and 100.

Display:

Taut-band suspension meter movement, 250° deflection (not suitable for prolonged exposure to vibration)

Repeatability: ±1% of full scale

### Materials

- Enclosure: ABS Plastic
- Panel and case gasket: Neoprene
- Window: Hard-coated polycarbonate

### Electrical

Power Requirements: None

### Environmental

Operating Temperature:

-10 °C to 65 °C (14 °F to 149 °F)

Relative Humidity:

0 to 95%, non-condensing

Enclosure: NEMA 4X/IP65 front

**Shipping Weight** 0.45 kg 1 lb

### Standards and Approvals

- FM, UL, CUL
- Manufactured under ISO 9001 for Quality and ISO 14001 for Environmental Management

### Model 5090

#### Ordering Notes

- 1) Panel cutout should be 92 x 92 mm (3.62 x 3.62 in.)
- 2) Reversible dials are included and are scaled from 0 to 2, 0 to 4, 0 to 6, 0 to 8, 0 to 10, and 0 to 100.
- 3) An optional splash proof rear cover can be ordered separately if needed for most environments.
- 4) Flow rate unit tags are provided for labeling dials appropriately in units of gpm, lpm, etc.

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

## Ordering Information

Mfr. Part No	Code	Description
3-5090	<b>198 825 000</b>	5090 Sensor-Powered Flow Monitor

## Accessories and Replacement Parts

Mfr. Part No	Code	Description
<b>Mounting</b>		
3-5000.395	<b>198 840 227</b>	Splashproof rear cover kit
3-5000.399	<b>198 840 224</b>	5 x 5 inch adapter plate to retrofit older Signet installations
3-5000.598	<b>198 840 225</b>	Surface mount bracket (panel mount only)
3-0000.596	<b>198 000 641</b>	Heavy duty wall mount bracket (panel mount only)
<b>Liquid Tight Connectors</b>		
3-9000.392	<b>159 000 368</b>	Liquid tight connector kit (includes 3 connectors)
3-9000.392-1	<b>159 000 839</b>	Liquid tight connector kit, NPT (1 connector)
3-9000.392-2	<b>159 000 841</b>	Liquid tight connector kit, PG 13.5 (1 connector)
<b>Replacement parts</b>		
3-5000.390	<b>159 000 323</b>	Installation kit (ProPoint® screws, clamps, and mounting brackets)
3-5000.396	<b>159 000 325</b>	5090 window kit
3-5000.525-1	<b>198 840 226</b>	Bezel, 5000 series
3-5090.390	<b>159 000 334</b>	Dial kit
3-5090.611	<b>198 840 228</b>	Unit tags
3-5000.396	<b>159 000 325</b>	5090, 5091 window Kit

### Rev A (3/09)

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3401 Aerojet Avenue, El Monte, CA 91731-2882 U.S.A. • Tel. (626) 571-2770 • Fax (626) 573-2057 • www.gfsignet.com • e-mail: signet.ps@georgfischer.com  
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