

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 60m (200 ft.) from sensor installation
- Wide flow range: 1 to 20 ft/s in pipe sizes DN15 to D900 (0.5 to 36 in.)
- Single-point calibration from front panel
- Factory Mutual (FM) approved for intrinsic safety in Classes I, II and III, Division I

## Application

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

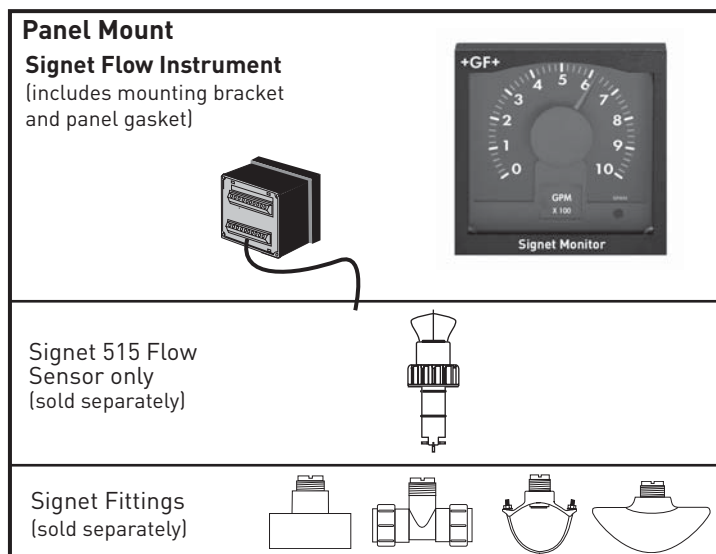
## Description

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 venerable 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.

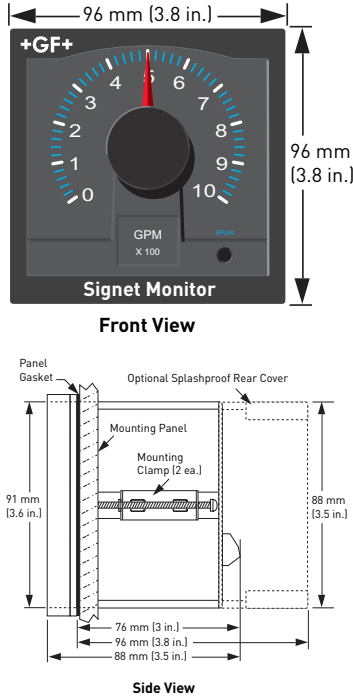


## System Overview





## Dimensions



## Specifications

### General

Operating Range:

- 0.3 to 6 m/s (1 to 20 ft/s) in pipes DN15 to DN 900 (0.5 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)

Accuracy: ±2% of full scale

Repeatability: ±1% of full scale

### Materials

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

### Electrical

Power Requirements: None

### Environmental

Rating: NEMA 4X/IP65 front

Operating temperature:

-10 to 65°C (14 to 149°F)

Relative humidity:

0 to 95%, non-condensing

**Shipping Weight:** 0.45 kg (1 lb.)

### Standards and Approvals

- FM, UL, CE, CUL
- Manufactured under ISO 9001:2000 for Quality and ISO 14001:2004 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 for Signet retrofit
3-5000.598	<b>198 840 225</b>	Surface mount bracket
3-0000.596	<b>159 000 641</b>	Heavy duty wall mount bracket
<b>Liquid tight connectors</b>		
3-9000.392	<b>159 000 368</b>	Liquid tight connector kit (includes 3 connectors)
3-9000.392-2	<b>159 000 841</b>	Liquid tight connector kit, PG13.5 (1 pc.)
3-9000.392-1	<b>159 000 839</b>	Liquid tight connector kit, NPT (1 pc.)
<b>Replacement parts</b>		
3-5000.390	<b>159 000 323</b>	Installation kit (ProPoint screws, clamps, mounting template)
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