

Signet 8550 Flow Transmitters

Member of the ProcessPro® Family of Instruments



Panel Mount



Pipe, Wall, Tank and Integral Mount

Features

- 2 or 4 wire power
- Available with single or dual input/output
- 4 to 20 mA scaleable outputs
- Permanent & resettable totalizers
- Relay options available
- NEMA 4X enclosure with self-healing window
- Output simulation for complete system testing

Description


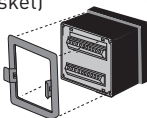







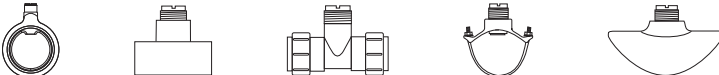
Signet 8550 Flow Transmitters are advanced instruments that convert the signal from all Signet flow sensors into a 4 to 20 mA signal for long distance transmission. Configuration flexibility is maximized with single or dual input/output, two optional relays for process control, two packaging

options for integral/pipe mount or panel installation, and scalability for virtually any flow range or engineering unit. State-of-the-art electronic design ensures long-term reliability, signal stability, and simple user setup and operation.

Applications

- Flow control and monitoring
- Filtration or softener regeneration
- Effluent totalization
- Pump protection
- Feed pump pulsing
- Ratio control
- Water distribution
- Leak detection

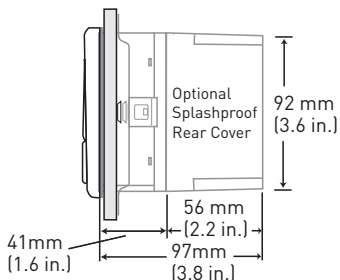
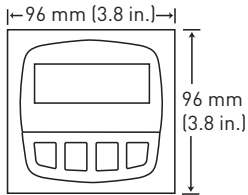
System Overview

<p>Panel Mount Signet 8550 Flow Instrument (Includes mounting bracket and panel gasket)</p>  	<p>Pipe, Tank, Wall Mount Signet 8550 Flow Transmitter</p>  	<p>Integral Mount Signet 8550 Flow Transmitter</p>  
<p>Signet Flow Sensor (sold separately) 515 2507 2540 525 2536 2551 2000 2552 2100</p> 	<p>Signet Flow Sensor (sold separately) 515 2507 2540 525 2536 2551 2000 2552 2100</p> 	<p>Signet Integral Mount Flow Sensor (sold separately) 3-8510-XX 3-8512-XX</p> 
<p>Signet Fittings (sold separately)</p> 		

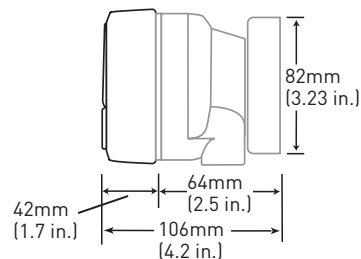


Dimensions

3-8550-XP



Field version with universal mount



Model 8550

Ordering Notes

- 1) Use the field mount version to directly mount the instrument to the Model 515 or 2536 integral mount sensor. See sensor data sheet for more information.
- 2) Field mount and sensor can be ordered in a package. See Integral Mount for more information.
- 3) Panel Cutout should be 92 mm X 92 mm [3.62 in X 3.62 in.].
- 4) An optional splash proof rear cover for the panel mount version can be ordered separately if needed.

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

Specifications

General

Compatibility: Signet Flow Sensors with frequency outputs
 Accuracy: $\pm 0.5\%$ of reading
 Display: Alphanumeric 2 x 16 LCD
 Update Rate: 1 second
 Contrast: User selectable, 5 levels

Materials

- Enclosure: PBT
- Panel Case Gasket: Neoprene
- Window: Polyurethane coated polycarbonate
- Keypad: Sealed 4-key silicone rubber

Electrical

Power: 12 to 24 VDC $\pm 10\%$, regulated
 (-1) 90 mA max.
 (-2) 220 mA max.
 (-3) 100 mA max.

Sensor Input Range: 0.5 to 1500 Hz

Sensor Power:

- 2-wire: 5 VDC $\pm 1\%$ @ 1.5 mA
- 3 or 4 wire: 5 VDC $\pm 1\%$ @ 20 mA
 Optically isolated from current loop
 Short circuit protected

Current Output

- 4 to 20 mA, isolated, passive, fully adjustable and reversible
- Max. Loop Impedance:
 50 Ω max. @ 12 V
 325 Ω max. @ 18 V
 600 Ω max. @ 24 V
- Update Rate: 100 ms
- Accuracy: ± 0.03 mA

Electrical (continued)

Relay Output

- Mechanical SPDT contacts:
 High, Low, Pulse, Off
 - Maximum Voltage Rating:
 30 VDC @ 5 A, 250 VAC @ 5 A
 resistive load
 - Hysteresis: User selectable
 - Maximum 400 pulses/min.
- Open-Collector Output :
- High, Low, Pulse, Off
 - Optically isolated,
 50 mA max. sink, 30 VDC max.
 pull-up voltage.
 - Hysteresis: User selectable for
 exiting alarm condition
 - Maximum 400 pulses/min.

Environmental

Operating Temperature:
 -10 °C to 70 °C (14 °F to 158 °F)
 Storage Temperature:
 -15 °C to 80 °C (5 °F to 176 °F)
 Relative Humidity:
 0 to 95%, non-condensing
 Enclosure: NEMA 4X/IP65 (front)

Shipping Weight 0.325 kg 0.8 lb

Standards and Approvals

- CE, UL, CUL listed
- RoHS compliant
- Manufactured under ISO 9001 for
 Quality and ISO 14001 for
 Environmental Management

Ordering Information

Instrument Part Number	
3-8550	ProcessPro® Flow Transmitter
	Sensor Input, Sensor Power, Outputs - Choose One
-1	One input, 2 or 4 wire, 4 to 20 mA and open collector for Hi, Lo, Pulse, or Frequency
-2	One input, 4 wire, 4 to 20 mA and 2 relays for Hi, Lo, or Pulse
-3	Two inputs, 2 or 4 wire, two 4 to 20 mA outputs and 2 open collectors for Hi, Lo, Pulse, or Frequency
	Field or Panel Mount - Choose One
-	Field mount
P	Panel mount; includes mounting bracket and panel gasket
3-8550	- 1
Example Part Number - Field mount	

Mfr. Part No.	Code	Mfr. Part No.	Code
3-8550-1	159 000 047	3-8550-2P	159 000 050
3-8550-1P	159 000 048	3-8550-3	159 000 051
3-8550-2	159 000 049	3-8550-3P	159 000 052

Accessories and Replacement Parts

Mfr. Part No.	Code	Description
Mounting Accessories		
3-8050	159 000 184	Universal mounting kit
3-8051	159 000 187	Flow integral mount NPT
3-0000.596	159 000 641	Heavy duty wall mount bracket (panel mount only)
3-5000.598	198 840 225	Surface mount bracket (panel mount only)
3-8050.395	159 000 186	Splashproof rear cover (panel mount only)
Liquid Tight Connectors and Other		
3-9000.392	159 000 368	Liquid tight connector kit for rear cover (includes 3 connectors)
3-9000.392-1	159 000 839	Liquid tight connector kit, NPT (1 connector)
3-9000.392-2	159 000 841	Liquid tight connector kit, PG 13.5 (1 connector)
3-8050.396	159 000 617	RC filter kit (for relay use)