

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 frequency and digital (S³L) 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

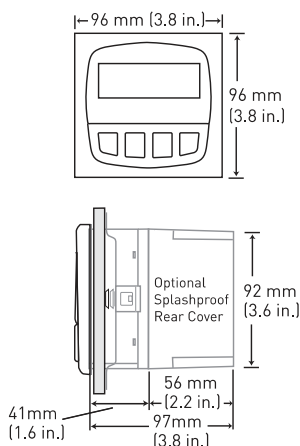
System Overview

Panel Mount Signet 8550 Flow Instrument (Includes mounting bracket and panel gasket) 	Pipe, Tank, Wall Mount Signet 8550 Flow Transmitter 	Integral Mount Signet 8550 Flow Transmitter
Signet Flow Sensor (sold separately) 515 2507 2540 525 2536 2551 2000 2552 2100 	Signet Universal Adapter Kit (3-8050) (sold separately) 	Signet Integral Adapter Kit (3-8051) (sold separately)
Signet Fittings (sold separately) 	Signet Flow Sensor (sold separately) 515 2507 2540 525 2536 2551 2000 2552 2100 	Signet Integral Mount Flow Sensor (sold separately) 3-8510-XX 3-8512-XX

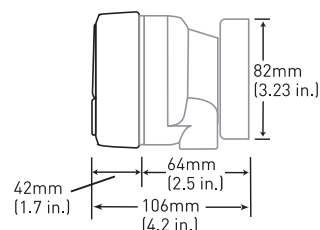


Dimensions

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.**

3-8550.099 Rev C (03/10)

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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
- 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)