

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




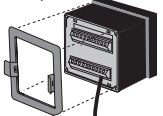
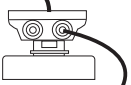


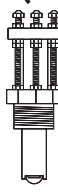
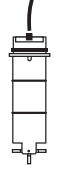

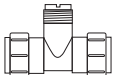

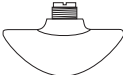
Signet 8550 Flow Transmitters are advanced instruments that convert the signal from all Signet flow sensors into a 4 to 20 mA signal for long distance transmission. Configuration flexibility is maximized with single or dual input/output, two optional relays for process control, two packaging

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

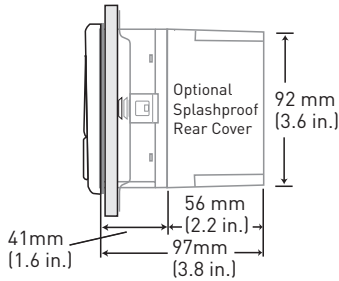
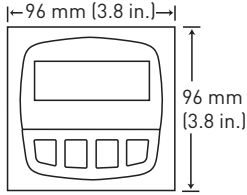
Panel Mount	Pipe, Tank, Wall Mount	Integral Mount
Signet 8550 Flow Instrument (Includes mounting bracket and panel gasket) 	Signet 8550 Flow Transmitter 	Signet 8550 Flow Transmitter 
	Signet Universal Adapter Kit (3-8050) (sold separately) 	Signet Integral Adapter Kit (3-8051) (sold separately) 
Signet Flow Sensor (sold separately) 515 2507 2540 525 2517 2551 2000 2536 2552* 2100 2537 7000 	Signet Flow Sensor (sold separately) 515 2507 2540 525 2517 2551 2000 2536 2552* 2100 2537 7000 	Signet Integral Mount Flow Sensor (sold separately) 515 2536 
Signet Fittings (sold separately)    		



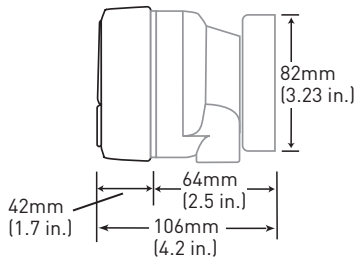
*Contact your local Georg Fischer Sales Office for availability

+GF+ 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 (all except 7001)
 Accuracy: $\pm 0.5\%$ of reading @ 25°C
 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) 61 mA max.; (-2) 200 mA max.; (-3) 122 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:
 50Ω max. @ 12 V
 325Ω max. @ 18 V
 600Ω max. @ 24 V
- Update rate: 100 ms
- Accuracy: ± 0.03 mA

Electrical (continued)

Relay output

- Mechanical SPDT contacts: Hi, Lo, Pulse, Off
- Maximum voltage rating: 30VDC @ 5A , 250 VAC @ 5A resistive load

- Hysteresis: User selectable
- Maximum 300 pulses/min.

Open-collector output :

- Hi, Lo, Pulse, Off
- Open-collector, optically isolated, 50 mA max. sink, 30 VDC max. pull-up voltage.
- Hysteresis: User selectable
- Maximum 300 pulses/min.

Environmental

Rating: NEMA 4X/IP65 (front)

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

Shipping Weight: 0.325kg (0.8 lbs.)

Standards and Approvals

- CE, UL, CUL listed
- Manufactured under ISO 9001:2000 for Quality and ISO 14001:2004 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 Freq.
	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
3-8550 - 2 P	Example Part Number - Panel 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
3-5000.598	198 840 225	Surface Mount Bracket
3-8050.395	159 000 186	Splashproof rear cover
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 piece)
3-9000.392-2	159 000 841	Liquid tight connector kit, PG13.5 (1 piece)
3-8050.396	159 000 617	RC Filter kit (for relay use)