

# 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




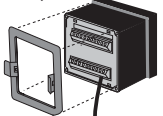
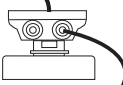


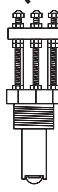
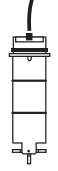

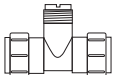

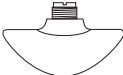
Signet 8550 Flow Transmitters are advanced instruments that convert the signal from all Signet flow sensors into a 4 to 20 mA signal for long distance transmission. Configuration flexibility is maximized with single or dual input/output, two optional relays for process control, two packaging

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

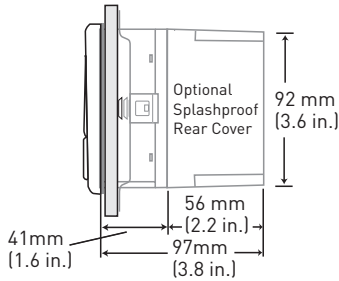
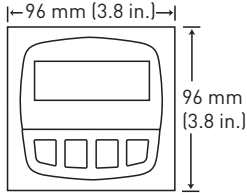
Panel Mount	Pipe, Tank, Wall Mount	Integral Mount
<b>Signet 8550 Flow Instrument</b> (Includes mounting bracket and panel gasket) 	<b>Signet 8550 Flow Transmitter</b> 	<b>Signet 8550 Flow Transmitter</b> 
	<b>Signet Universal Adapter Kit (3-8050)</b> (sold separately) 	<b>Signet Integral Adapter Kit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



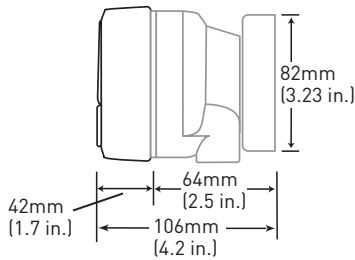
\*Contact your local Georg Fischer Sales Office for availability

# +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:  $\pm 0.03$  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	
<b>3-8550</b>	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
<b>3-8550 - 1</b>	<b>Example Part Number - Field mount</b>
<b>3-8550 - 2 P</b>	<b>Example Part Number - Panel mount</b>

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

## Accessories and Replacement Parts

Mfr. Part No.	Code	Description
<b>Mounting Accessories</b>		
3-8050	<b>159 000 184</b>	Universal mounting kit
3-8051	<b>159 000 187</b>	Flow Integral Mount NPT
3-0000.596	<b>159 000 641</b>	Heavy duty wall mount bracket
3-5000.598	<b>198 840 225</b>	Surface Mount Bracket
3-8050.395	<b>159 000 186</b>	Splashproof rear cover
<b>Liquid tight connectors and other</b>		
3-9000.392	<b>159 000 368</b>	Liquid tight connector kit for rear cover (includes 3 connectors)
3-9000.392-1	<b>159 000 839</b>	Liquid tight connector kit, NPT (1 piece)
3-9000.392-2	<b>159 000 841</b>	Liquid tight connector kit, PG13.5 (1 piece)
3-8050.396	<b>159 000 617</b>	RC Filter kit (for relay use)