

Signet 8550 Flow Transmitters



Check out the 9900 Transmitter for your single channel needs

Member of the ProcessPro® Family of Instruments



Panel Mount



Pipe, Wall, Tank and Integral Mount

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.

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



Applications

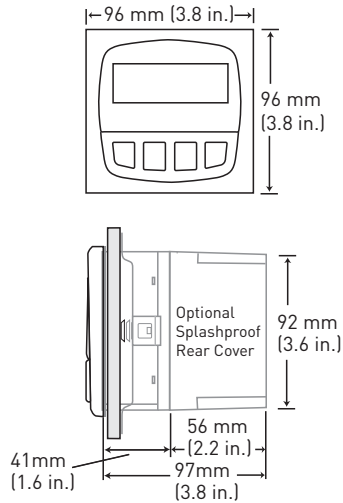
- Flow Control and Monitoring
- Filtration or Softener Regeneration
- Effluent Totalization
- Pump Protection
- Feed Pump Pulsing
- Ratio Control
- Water Distribution
- Leak Detection

Specifications

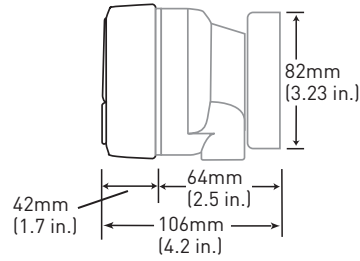
General		
Compatibility	Signet Flow Sensors with frequency outputs	
Accuracy	± 0.5% of reading	
Display	Alphanumeric 2 x 16 LCD	
Update Rate	1 second	
Contrast	User selectable, 5 levels	
Materials		
Enclosure	PBT resin	
Keypad	Sealed 4-key silicon rubber	
Panel and Case Gasket	Neoprene	
Window	Polyurethane coated polycarbonate	
Electrical		
Power	12 to 24 VDC ±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 ± 1% @ 1.5 mA	
	3 or 4 wire: 5 VDC ± 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	
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 face only on panel mount); field mount is 100% NEMA 4X/IP65	
Shipping Weight		
	0.325 kg	0.7 lb
Standards and Approvals		
	CE, UL, CUL	
	RoHS compliant	
	China RoHS	
	Manufactured under ISO 9001 for Quality and ISO 14001 for Environmental Management	




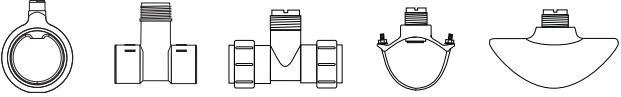
Dimensions

3-8550-XP



Field version with universal mount



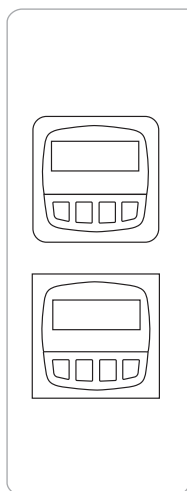
System Overview	Panel Mount	Field Mount - Pipe, Tank, Wall	Integral Mount
	Signet 8550 Flow Transmitter (Includes mounting bracket and panel gasket)	Signet 8550 Flow Transmitter with 3-8050 Universal Mount Kit	Signet 8550 Flow Transmitter with 3-8051 Universal Mount Kit
			
	Signet Sensor 515 525 2000 2100 2507 2536 2537 2540 2551 2552	Signet Sensor 515 2507 2540 525 2536 2537 2000 2551 2552 2100	Signet Integral Mount Sensor 3-8510-XX 3-8512-XX
Signet Fittings			All sold separately

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 splashproof rear cover for the panel mount version can be ordered separately if needed.

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

Ordering Information



Mfr. Part No.	Code	Input/Output
ProcessPro Flow Transmitter		
Field mount package		
3-8550-1	159 000 047	One input, 2 or 4 wire, 4 to 20 mA and open collector for Hi, Lo, Pulse, Freq.
3-8550-2	159 000 049	One input 4 wire, 4 to 20 mA and two relays for Hi, Lo or Pulse
3-8550-3	159 000 051	Two inputs, 2 or 4 wire, two 4 to 20 mA outputs and 2 open collectors for Hi, Lo, Pulse or Frequency
Panel mount package		
3-8550-1P	159 000 048	One input, 2 or 4 wire, 4 to 20 mA and open collector for Hi, Lo, Pulse, Freq.
3-8550-2P	159 000 050	One input 4 wire, 4 to 20 mA and two relays for Hi, Lo or Pulse
3-8550-3P	159 000 052	Two inputs, 2 or 4 wire, two 4 to 20 mA outputs and 2 open collectors for Hi, Lo, Pulse or Frequency

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)
3-9900.396	159 001 701	Angle adjustment adapter kit
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)

3-8550.099 Rev D (10/11)

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