Signet 8550 Flow Transmitters

+GF+

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 (S^3L) flow sensors into a 4 to 20 mA signal for long distance transmission. Configuration flexibility is maximized with 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 dual input & output**

- **4 to 20 mA scaleable outputs**

- **Permanent & resettable totalizers**

- **Relay options available**

- **NEMA 4X enclosure with self-healing window**
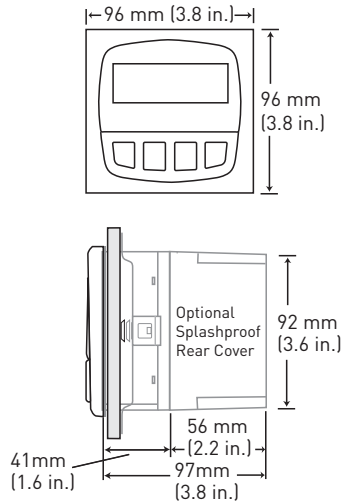
- **Output simulation for complete system testing**

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Applications

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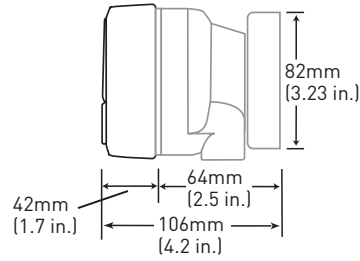
Specifications

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
	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, FCC, UL, CUL	
	RoHS compliant, China RoHS	
	Manufactured under ISO 9001 for Quality and ISO 14001 for Environmental Management and OHSAS 18001 for Occupational Health and Safety	

Dimensions

3-8550-XP

|← 96 mm (3.8 in.) →|

96 mm (3.8 in.)

Optional Splashproof Rear Cover

92 mm (3.6 in.)

56 mm (2.2 in.)

41mm (1.6 in.)

97mm (3.8 in.)
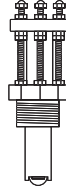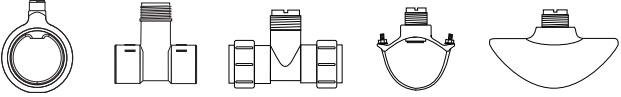
Field version with universal mount

82mm (3.23 in.)

64mm (2.5 in.)

42mm (1.7 in.)

106mm (4.2 in.)

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-X Integral 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
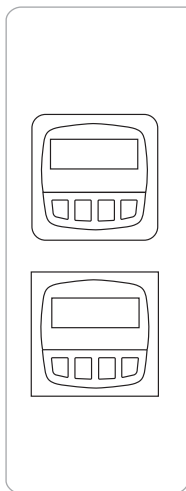
Mfr. Part No.	Code	Input	Output	Power
ProcessPro Flow Transmitter				
Field mount package				
3-8550-3	**159 000 051**	Two	Two 4 to 20 mA outputs and two open collectors for Hi, Lo, Pulse or Frequency	2 or 4 wire
Panel mount package				
3-8550-3P	**159 000 052**	Two	Two 4 to 20 mA outputs and two open collectors for Hi, Lo, Pulse or Frequency	2 or 4 wire

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 Sensor integral mount kit, NPT, Valox
3-8051-1	**159 001 755**	Flow Sensor integral mount kit, NPT, PP
3-8051-2	**159 001 756**	Flow Sensor integral mount kit, NPT, PVDF
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)