Signet 5500 Flow Monitor



Featuring analog and digital displays and a remote resettable totalizer.

Two dry-contact relays can be configured

for High or Low alarm operation, or

chemical dosing applications.

any PLC or data logger.

the front keypad.

they can be set to pulse operation for

Use the internally powered 4 to 20 mA

output, programmable from the front

keypad, to send the flow information to

If you use all of these output features,

terminals, one at sensor frequency, the

other triggered by the totalizer. And just

totalizer can be reset by a remote hard-

wired switch, up to 30 m (100 ft), or from

for added convenience, the resettable

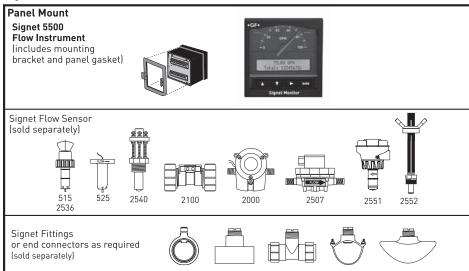
you still have two more output pulse

Description

The Signet 5500 Flow Monitor is an instrument that comes fully equipped with all of the basic tools needed for monitoring and controlling a flow system. The analog dial enables the user to easily read instantaneous flow rate, while the backlit LCD is useful for calibration, setup, and displaying totalized flow volume. The 5500 features a standard ¼ DIN package and removable wiring terminals. Power the instrument with virtually any standard 24-volt power supply (AC or DC).

Connect any one of Signet's wide array of flow sensors, then consider which output features are best for your application.

System Overview





Features

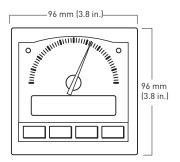
- Permanent and resettable totalizers
- Two programmable relays
- Fully scaleable active (internally powered) 4 to 20 mA output
- Tamper proof security code
- Non-volatile memory
- Intuitive software design
- Programmable pulse outputs

Applications

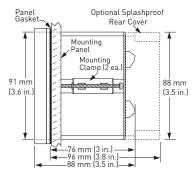
- Waste Water Flow
 Accumulation
- Water Treatment Systems
- Filtration Systems
- Feed Pump Pulsing
- Fertigation
- Irrigation
- Commercial Pools & Spas
- Groundwater Remediation
- HVAC
- Process Flow Monitoring
- UPW Distribution
- Demineralizer Regeneration
- Process Cooling Water
- Neutralization Systems



Dimensions



Front View



SIDE VIEW

Model 5500

Ordering Notes

- 1) Panel cutout should be 92 x 92 mm (3.62 x 3.62 in.)
- Reversible dials are included and are scaled from 0 to 2, 0 to 4, 0 to 6, 0 to 8, 0 to 10, and 0 to 100.
- An optional splash proof rear cover can be ordered separately if needed.
- Flow rate unit tags are provided for labeling dials appropriately in units of gpm, lpm, etc.

Specifications

General

Operating Range: 0.5 Hz to 10kHz Accuracy: ± 0.5% of reading Display:

- Analog:
- Six slide-in dial ranges 0 to 2, 4, 6, 8, 10 & 100 w/multipliers
- Digital:
- Backlit LCD, 2x16 alphanumeric character
- Additional Functions: Sensor pulse output, volumetric auxiliary pulse output, remote totalizer reset

Materials

- Enclosure: ABS Plastic
- Keypad: Silicone Rubber
- Panel and case gasket: Neoprene
- Window: Hard-coated polycarbonate

Electrical

Power Requirements:

12 to 24 VAC or DC ±10%, regulated recommended, 50 to 60 Hz, 10W max. Current Output:

• 4 to 20 mA, non-isolated, active, internally powered

Ordering Information

Electrical (continued)

- Loop Impedance: 350 Ω max. @ 12 V 950 Ω max. @ 24 V
- Accuracy: $\pm 0.1\%$
- Update Rate: 100 msec
- Alarm Contacts:
- Two SPDT relays: High/Low/Pulse programmable with adj. hysteresis for exiting alarm condition
 5 A @ 30 VDC
 5 A @ 125 VAC
 3 A @ 250 VAC max.

Environmental

Operating Temperature: -10 °C to 55 °C (14 °F to 131 °F)

Relative Humidity:

0 to 95%, non-condensing Enclosure: NEMA 4X/IP65 front

Shipping Weight 0.8 kg 1.8 lb

Standards and Approvals

- UL, CE, CUL
- Manufactured under ISO 9001 for Quality and ISO 14001 for Environmental Management

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	Mfr. Part No	Code	Description
	3-5500	198 825 002	5500 Flow Monitor

Accessories and Replacement Parts

Mfr. Part No	Code	Description
Mounting		
3-5000.395	198 840 227	Splashproof rear cover kit
3-5000.399	198 840 224	5 x 5 inch adapter plate to retrofit older Signet
		installations
3-5000.598	198 840 225	Surface mount bracket (panel mount only)
3-0000.596	198 000 641	Heavy duty wall mount bracket (panel mount only)
Liquid Tight Co	nnectors	
3-9000.392	159 000 368	Liquid tight connector kit (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)
Replacement P	arts	
3-5000.390	159 000 323	Installation kit (ProPoint® screws, clamps,
		mounting brackets)
3-5000.525-1	198 840 226	Bezel, 5000 series
3-5500.390	159 000 347	Dial kit
3-5500.611	198 840 230	Unit tags
3-5000.397	159 000 326	5000 series window (window, keypad, & screws)
Other		
3-5000.398	159 000 646	Protective overlay kit (10 pcs.)
3-5000.075	159 000 321	110V/24 VAC transformer
3-8050.396	159 000 617	RC filter kit (for relay use)

Rev A (3/09)

Please refer to

Wiring, Installation, and Accessories sections for more information.