Signet 5900 Salinity Monitor





Check out the 9900 Transmitter for your single channel needs

Member of the ProPoint® Family of Monitors



The Signet 5900 Salinity Monitor utilizes conductivity sensors to provide direct reading, including calibration, of salinity in parts per thousand (PPT). Equipped with a scaleable 4 to 20 mA output and two programmable relays, the monitor requires 12 to 24 volts, ±10%, regulated, AC or DC, and is compatible with Signet 10 cm⁻¹ or 20 cm⁻¹ conductivity cells. Temperature is selectable for display in either °C or °F, and compensation is automatic.

Calibration is simplified with single-point salinity and temperature entry via the wet-cal menu sequence. The four-button keypad arrangement with intuitive software design is user-friendly, and is offered with a hardcoated, high impact, and UV resistant polycarbonate front face. The front panel is rated NEMA 4X/IP65 and an optional splashproof cover is available to protect the back of the instrument.

Features

- Direct reading and calibration in PPT
- Dual proportional control capability
- Scaleable 4 to 20 mA output (active) internally powered
- Two programmable relays
- Tamper-proof security code
- Analog and digital display
- Non-volatile memory
- Compatible with ALL Signet conductivity electrodes
- Versatile low voltage power requirement
- NEMA 4X/IP65



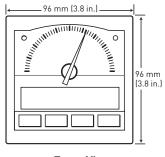
Applications

- Desalination
- Saltwater Production
- Aquatic Animal Life Support Systems
- Aquaculture
- Environmental Studies

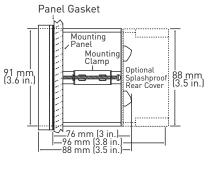
Specifications

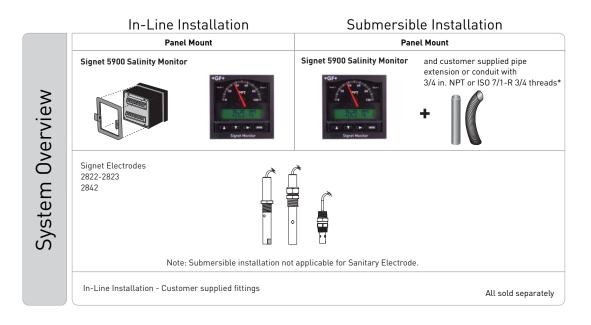
General					
Operating Rar	nge (for sensors)				
	Salinity	1 to 80 ppt (parts per thousand)			
	Temperature	-5 °C to 100 °C	23 °F to 212 °F		
Accuracy		± 2% of reading			
Display	Analog	Reversible dials: 0 to 2, 4, 6, 8, 10 and 100			
	Digital	Backlit LCD, 2x16 alphanumeric characters			
Materials					
Enclosure		ABS Plastic			
Keypad		Silicone Rubber			
Panel and Case Gasket		Neoprene			
Window		Hard-Coated Polycarbonate			
Electrical					
Power Require	ements	12 to 24 VAC or DC $\pm 10\%$, regulated recommended, 50 to 60 Hz, 10W max.			
Current Outpu	ıt	4 to 20 mA, non-isolated, active, internally powered			
Loop Impedan	ice	350 Ω max. @ 12 V			
		950 Ω max. @ 24 V			
Accuracy		± 0.1%			
Alarm Contacts		Two SPDT relays			
		5 A @ 30 VDC			
		5 A @ 125 VAC			
		3 A @ 250 VAC max.			
		High/low/pulse programmable with adjustable hysteresis			
		Dual proportional control capability, up to 300 pulses per minute			
Environmenta	าไ				
Operating Tem	nperature	-10 °C to 55 °C	14 °F to 131 °F		
Relative Humidity		0 to 95%, non-condensing			
Enclosure		NEMA 4X/IP65 (front face only)			
Shipping Weig	ght				
		0.8 kg	1.8 lb		
Standards and	d Approvals				
		CE, UL, CUL			
		China RoHS			
		Manufactured under ISO 9001 for Quality and ISO 14001 for Environmental Management			

Dimensions



Front View





Ordering Notes

- 1) Panel cutout should be 92 x 92 mm (3.62 x 3.62 in.)
- 2) Reversible dials are included and are scaled from 0 to 2, 0 to 4, 0 to 6, 0 to 8, 0 to 10, 0 to 100.
- 3) An optional splashproof rear cover can be ordered separately if needed for outdoor environments.
- 4) Use RC filter kits to protect relays from voltage spikes.

Ordering Information



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3-	-59	00				

CodeDescription198 825 008Salinity Monitor with 4 to 20 mA output and two relays

Accessories and Replacement Parts

Mfr. Part No.	Code	Description			
Mounting					
3-5000.395	198 840 227	227 Splashproof rear cover kit			
3-5000.598	198 840 225	Surface mount bracket (panel mount only)			
3-5000.399	198 840 224	5 x 5 inch adapter plate to retrofit older Signet installation			
3-8050.392	159 000 640	1/4 DIN retrofit adapter			
3-0000.596	159 000 641	Heavy duty wall mount bracket (panel mount only)			
Liquid Tight Connectors					
3-9000.392	159 000 368	Liquid tight connector kit for rear cover (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)			
Miscellaneous					
3-5000.390	159 000 323	Installation kit			
3-5000.397	159 000 326	5000 series window kit (window, keypad, and screws)			
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			
3-5000.398	159 000 646	Protective overlay kit (10 pcs)			
3-8050.396	159 000 617	RC filter kit (for relay use), 2 per kit			