Signet 8750 pH/ORP Transmitters

Check out the 9900 Transmitter for your single channel needs

Member of the ProcessPro® Family of Instruments

Panel Mount

Pipe, Tank, Wall Mount

The Signet 8750 pH/ORP Transmitter is designed for broad application and ease of setup and use. The unit auto-configures for either pH or ORP use when connected to Signet pH or ORP electrodes. Multiple mounting options allow for installation best suited to your particular application.

The EasyCal menu features automatic buffer recognition for mistake-proof pH or ORP electrode calibrations. Intuitive software and the four button keypad arrangement make it easy to access important information such as pH or ORP, mV input, temperature, calibration, relay setup menus and more.

Features

- **Automatic temperature compensation**
- **Temperature display in °C or °F**
- **Hold and simulate functions**
- **Relay options available**
- **Output scaleability**
- **Dual output**
- **NEMA 4X/IP65 enclosure with self-healing window**
- **EasyCal**

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MEASURING EQUIPMENT
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Applications

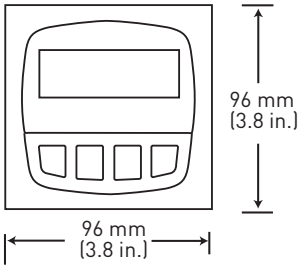
- **Neutralization Systems**
- **Heavy Metals Recovery**
- **Plating Control**
- **Scrubber Control**
- **Pool and Spa Control**
- **Environmental Study**
- **Water Treatment**
- **Water Quality Monitoring**
- **Waste Treatment**
- **Disinfection**

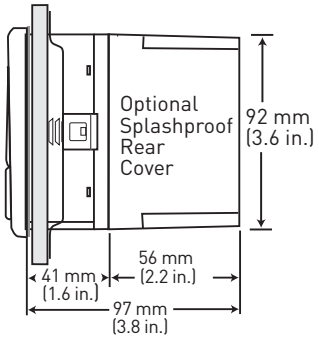
Specifications

General				
Accuracy	±0.03 pH, ±2 mV ORP			
Display	2 x 16 LCD			
	Contrast	User selectable, 5 levels		
Material				
Case	PBT			
Panel Case Gasket	Neoprene			
Window	Polyurethane coated polycarbonate			
Keypad	Sealed 4-key silicone rubber			
Electrical				
Power	12 to 24 VDC ±10% regulated			
	60 mA max.			
Electrode Input Range	pH	0 to 14 pH		
	Temp.	3K Balco, -25 °C to 120 °C	-13 °F to 248 °F	
	ORP	-1000 to +2000 mV, isolated	10 KΩ I.D. resistance T+, T-	
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	0.5 seconds		
	Accuracy	±0.03 mA @ 25 °C, 24 V		
Relay Output	Mechanical SPDT contacts	High, Low, Pulse, Off		
	Maximum Voltage Rating	5 A @ 30 VDC, or 5 A @ 250 VAC resistive load		
	Hysteresis	User-adjustable Max 400 pulses/min.		
	Open-Collector Output	High, Low, Pulse, Off		
	Optically isolated, 50 mA max, sink, 30 VDC max. pull-up voltage.			
	Hysteresis	User-adjustable Max. 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				
	0.6 kg	1.3 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			

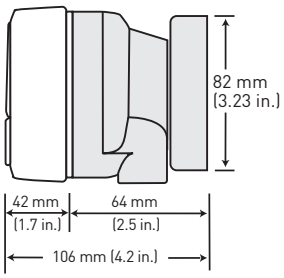
Dimensions

3-8750-XP Panel Mount





Field version with Universal Mounting Kit

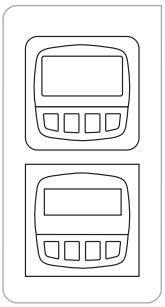


System Overview

	In-line Installation		Wet-Tap Installation		Submersible Installation
	Panel Mount	**Pipe, Tank, Wall Mount**	**Panel Mount**	**Pipe, Tank, Wall Mount**	**Panel Mount**
	Signet Instrument 8750	Signet pH/ORP Transmitter 8750 with Signet Universal Mount Kit (3-8050)	Signet Instrument 8750	Signet pH/ORP Transmitter 8750 with Signet Universal Mount Kit (3-8050)	Signet Instrument 8750
	Signet Preamplifier 2760		Signet 2760 Preamplifier with Signet Wet-Tap Electrode 2756 2757		Signet 2760 Preamplifier with customer supplied pipe extension or conduit, 3/4 in. NPT or ISO 7/1-R 3/4 threads**
	Signet Electrodes 2724-2726 2764-2767 2774-2777		Signet 3719 Wet-Tap		Signet Electrodes 2724-2726 2764-2767 2774-2777
	GF Fittings* or customer supplied fittings		GF Tees and Fittings see model 3719 for more info		All sold separately

*See fittings section for more information.
**Refer to the Signet Submersion brochure located in the K-Factors Fittings and More Kit (3-0000-709) for installation suggestions and options.

Ordering Information



Mfr. Part No.	Code	Input	Output	Power
Field Mount pH/ORP Transmitter yellow body for pipe, wall, or tank mounting				
3-8750-3	**159 000 057**	One	two 4 to 20 mA outputs and 2 open collectors	4 wire
Panel Mount pH/ORP Transmitter black body; including mounting bracket and panel gasket				
3-8750-3P	**159 000 058**	One	two 4 to 20 mA outputs and 2 open collectors	4 wire

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

Model 8750 Ordering Information

1) For panel version, cutout should be 92 x 92 mm (3.62 x 3.62 in.)

2) To mount the panel version on a wall, use the heavy duty wall mount bracket.

3) An optional splashproof rear cover can be ordered separately if needed - panel mount version only.

4) Use the universal mounting kit with the field mount instrument to mount to a pipe, tank or wall.

5) Order RC filter kits to protect relays from voltage spikes.

Accessories and Replacement Parts

Mfr. Part No.	Code	Description
Mounting		
3-8050	**159 000 184**	Universal mounting kit
3-8050.392	**159 000 640**	¼ DIN retrofit adapter
3-8050.395	**159 000 186**	Splashproof rear cover (panel mount only)
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)
3-9900.396	**159 001 701**	Angle adjustment adapter kit
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)
Other		
3-8050.396	**159 000 617**	RC filter kit (for relay use), 2 per kit
3-0700.390	**198 864 403**	pH buffer kit (1 each 4, 7, 10 pH buffer in powder form, makes 50 ml of each)
3-8050.625-70	**159 001 654**	Clear window display with adhesive

3-8750.099 Rev E (4/13)
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