

# Signet 5700 pH/ORP Monitor

Member of the ProPoint™ Family of Monitors






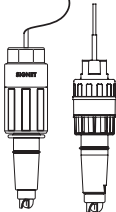

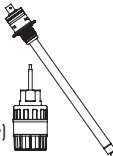
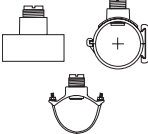
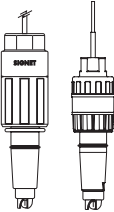
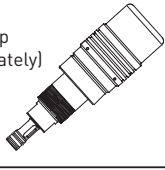
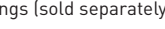
Analog and Digital Display

## Description

The Signet 5700 pH/ORP Monitor is a versatile and intelligent instrument that recognizes the type of sensor connected, either pH or ORP, then automatically sets itself for the corresponding display and functionality. Also, during EasyCal operation, the monitor automatically recognizes standard buffers/test solutions, thereby shortening and simplifying routine calibration procedures. Two programmable relays and one scaleable 4 to 20 mA output are included,

and the four-button keypad arrangement with intuitive software design is very user-friendly. The monitors require 12 to 24 Volts, AC or DC, and can be used with many Signet pH/ORP electrodes and preamplifiers, or with electrodes from other manufacturers by using the 2721 Preamplifier. Several useful accessories are available, including the optional splashproof rear cover kit.

## System Overview

In-Line Sensor Installation	Submersible Sensor Installation	WetTap Sensor Installation
<b>Panel Mount Signet 5700 Instrument</b> 	<b>Panel Mount Signet 5700 Instrument</b> 	<b>Panel Mount Signet 5700 Instrument</b> 
Signet compatible pH/ORP Electrode with Preamplifier 2714-2717, 2754-2757, 2764-2767, 2774-2777, 2720, 2760 (each sold separately) 	Pipe extension or conduit with 3/4 in. ElecNPT or ISO 7/1-R 3/4 threads 	Signet WetTap Electrode with Preamplifier 2716, 2717, 2756, 2757, 2720, 2760 (each sold separately) 
Signet Fittings (sold separately) 	Signet compatible pH/ORP Electrode with Preamplifier 2714-2717, 2754-2757, 2764-2767, 2774-2777, 2720, 2760 (each sold separately) 	Signet 3719 WetTap (sold separately) 
		Signet Fittings (sold separately)* 

\*See Fittings Section for more information.

## Features

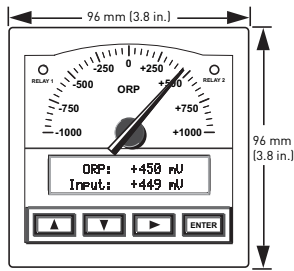
- Displays pH/temp/mV or ORP/mV
- EasyCal simplifies routine calibration
- Simple push-button operation
- Intuitive software design
- Scaleable 4 to 20 mA output internally powered
- Two programmable relays
- Dual proportional control capability
- Non-volatile memory
- Versatile low voltage power requirement

## Application

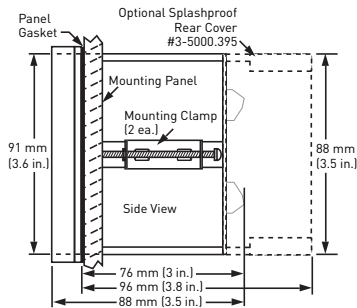
- Water & Wastewater Treatment
- Neutralization
- Scrubber Control
- Effluent Monitoring
- Surface Finishing
- Heavy Metal Removal and Recovery
- Toxics Destruction
- Sanitization Systems
- Pool & Spa Control
- Aquatic Animal Life Support Systems
- Process Control



**Dimensions**



**Front View**



**Side View**

**Model 5700**

**Ordering Information:**

- 1) Panel cutout should be 92 x 92mm (3.62 x 3.62 in.)
- 2) Reversible dials with standard ranges for pH and ORP are included with the instrument
- 3) An optional splash-proof rear cover can be ordered separately if needed.
- 4) Protective overlays are available for the front panel.
- 5) Order RC filter kits to protect relays from voltage spikes.
- 6) To mount the unit onto a wall, use the heavy duty wall mount bracket.

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

**Specifications**

**General**

Operating Range:

- pH: 0 to 14 pH, optically isolated
- Temp: -25°C to 120°C (-13°F to 248°F)
- ORP: -2,000 to +2,000 mV, optically isolated

**Display**

- Analog: Reversible dial: 0 to 14 pH or ±1000 mV
- Digital: Backlit LCD, 2x16 alphanumeric character

**Electrical**

Power Requirements:

12 to 24 Volts, AC or DC, unregulated, 50 to 60 Hz, 10W max.

Current Output:

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

Loop impedance:

350Ω max. @ 12V  
950Ω max. @ 24V

Accuracy: ± 0.1%

Alarm Contacts:

- Two SPDT relays:
  - 5A @ 30VDC
  - 5A @ 125VAC
  - 3A @ 250VAC max.
- High/Low/Pulse programmable with adjustable hysteresis
- Dual Proportional Control Capability, maximum pulse rate 300 pulses/min.
- Accuracy: ± 0.2% of scale

**Materials**

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

**Shipping Weight:** 0.82 kg (1.81 lb.)

**Environmental**

Enclosure rating: NEMA 4X/IP65 front

Operating temperature:

-10°C to 55°C (14°F to 131°F)

Relative humidity:

0 to 95%, non-condensing

**Standards and Approvals**

- CE, UL
- Manufactured under ISO 9001:2000 for Quality and ISO 14001:2004 for Environmental Management

**Ordering Information**

Mfr. Part No.	Code	Description
3-5700	<b>198 825 003</b>	pH/ORP Monitor

**Accessories and Replacement Parts**

Mfr. Part No.	Code	Description
<b>Mounting</b>		
3-5000.395	<b>198 840 227</b>	Splashproof rear cover kit
3-5000.399	<b>198 840 224</b>	5 x 5 inch adapter plate for Signet retrofit
3-5000.598	<b>198 840 225</b>	Surface mount bracket
3-8050.392	<b>159 000 640</b>	Model 200 retrofit adapter
3-0000.596	<b>159 000 641</b>	Heavy duty bracket for wall mounting of panel versions
<b>Liquid Tight Connectors</b>		
3-9000.392	<b>159 000 368</b>	Liquid tight connector kit for rear cover (3 connectors)
3-9000.392-1	<b>159 000 839</b>	Liquid tight connector kit, NPT (1 piece)
3-9000.392-2	<b>159 000 841</b>	Liquid tight connector kit, PG13.5 (1 piece)
<b>Other</b>		
3-5000.390	<b>159 000 323</b>	Installation kit
3-5000.397	<b>159 000 326</b>	5000 series window kit
3-5000.525-1	<b>198 840 226</b>	Bezel, 5000 series
3-0700.390	<b>198 864 403</b>	pH Buffer kit
3-5000.398	<b>159 000 646</b>	Protective Overlay kit (10 pcs)
3-8050.396	<b>159 000 617</b>	RC Filter Kit (for relay use), 2 per kit