

Signet 2760 DryLoc® pH/ORP Preamplifiers & Connectors



In-line 2760



Submersible
2760

DryLoc® Electrodes sold separately.

The Signet 2760 pH/ORP Preamplifiers features the DryLoc® connector, providing a robust connection to Signet DryLoc electrodes.

The 2760 preamplifier allows any DryLoc pH/ORP electrode to work with Signet ProcessPro® and ProPoint® pH/ORP instruments. It is also sold as a simple connector for use with other manufacturers' instruments that do not require a preamplified signal. The DryLoc electrode connector system quickly forms a robust assembly for submersible and in-line installations. Optional NEMA 4X junction enclosures are to extend the preamplifier cable to long distances.

The 2760 submersible preamplifier can also be used as an In-line preamplifier when used with the ¾ in. or 1 in. threaded sensors including the 2724, 2774 and 2764 series electrodes. The 2760 In-line preamplifier can be used with Signet fittings up to DN100 (4 in.) and wet-tap assemblies.

Features

- In-line integral mount and submersible installation versions
- Automatic temperature compensation
- Auto configuration for pH or ORP operation
- Optional junction boxes for convenient wiring



Applications

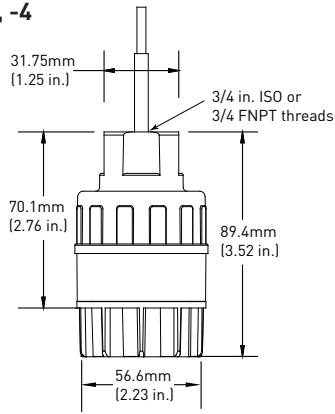
- Water/Wastewater Treatment
- Neutralization Systems
- Scrubber Control
- Effluent Monitoring
- Surface Finishing
- Flocculent Coagulation
- Heavy Metal Removal and Recovery
- Toxics Destruction
- Sanitization Systems
- Pool & Spa Control
- Aquatic Animal Life Support Systems

Specifications

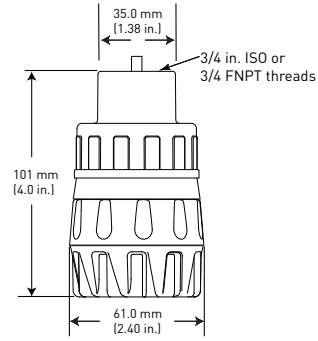
General			
Compatible Electrodes	Signet DryLoc® pH and ORP Electrodes Models 2724-2726, 2756-2757 Wet-Tap 2764-2767, 2774-2777		
	All pH sensors used with the 2760 must have a 3K Temperature sensor		
Operating Range	pH	0 to 14 pH	
	ORP	±2,000 mV	
Response Time*	pH	< 6 sec. for 95% of change	
	ORP	application dependent	
Materials	In-line	Valox® (PBT)	
	Submersible	CPVC	
Electrical			
Cable	4.6 m (15 ft) supplied, 120 m (400 ft) max		
	6 cond., foil shield with drain wire, 24 AWG		
Max. Temperature/Pressure Rating			
Operating Temperature	Submersible	0 °C to 85 °C	32 °F to 185 °F
	In-line	0 °C to 110 °C	32 °F to 230 °F
Storage Temperature	-20 °C to 85 °C	-4 °F to 185 °F	
Relative Humidity	0 to 95%, non-condensing (without electrode connected)		
Environmental			
Enclosure	Submersible	NEMA 6P/IP68 with electrode and watertight conduit and/or extension pipe connected	
	In-line	NEMA 4 with electrode and watertight conduit and/or extension pipe connected	
Shipping Weight			
	0.64 kg	1.41 lb	
Standards and Approvals			
	CE		
	RoHS compliant		
	China RoHS		
	Manufactured under ISO 9001 for Quality and ISO 14001 for Environmental Management		

Dimensions

3-2760-1, -2, -3, -4



3-2760-11, -21, -31, -41



In-Line Installation

System Overview	<p>Panel Mount</p> <p>Signet Instrument 5700 8750</p>	<p>Field Mount - Pipe, Tank, Wall</p> <p>Signet Instrument 8750 with Signet 3-8050 Universal Mount Kit</p>
	<p>Signet 2760 Preamplifier</p>	<p>Signet 2760 Preamplifier</p>
	<p>Signet Electrodes 2724-2726 2764-2767 2774-2777</p>	
	<p>2724-2726 Electrodes: Use GF Fittings* or customer supplied 3/4 in. NPT fittings 2764-2767 and 2774-2777 Electrodes: Use 3/4 in. or customer supplied 1 in. NPT fittings</p> <p style="text-align: right;">All sold separately</p>	

Submersible Installation

Wet-Tap Installation





<p>Panel Mount</p> <p>Signet Instruments 5700 8750</p>	<p>Field Mount - Pipe, Tank, Wall</p> <p>Signet Instruments 5700 8750</p>	<p>Panel Mount</p> <p>Signet Instrument 8750 with Signet 3-8050 Universal Mount Kit</p>
<p>Signet 2750 Sensor Electronics with customer supplied pipe extension or conduit, 3/4 in. NPT or ISO 7/1-R 3/4 threads**</p>	<p>Signet 2750 Sensor Electronics with Signet Wet-Tap Electrode 2756, 2757 and Signet 3719 Wet-Tap</p>	
<p>Signet Electrodes 2724-2726 2764-2767 2774-2777</p>	<p>GF Tees and Fittings see model 3719 for more info</p> <p style="text-align: right;">All sold separately</p>	

*See fittings section for more information


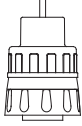
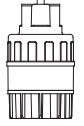
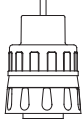

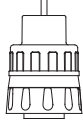

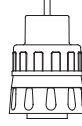
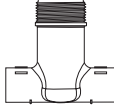
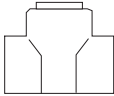
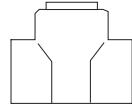
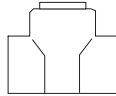
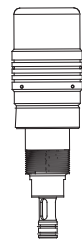

**Refer to the Signet Submersion brochure located in the K-Factors Fittings and More Kit (3-0000-709) for installation suggestions and options.

2760 Product Selection Guide

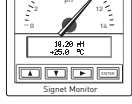

1. Choose the Electrode

<p>2724-2726</p> <p>3-2724-10, -11 3-2725-60, -61 3-2726-10, -11 3-2726-HF-10, -11 3-2726-LC-10, -11</p> 	<p>2764-2767 Differential</p> <p>3-2764-1 3-2765-1 3-2766-1 3-2767-1</p> 	<p>2774-2777</p> <p>3-2774 3-2775 3-2776 3-2777</p> 	<p>2756 and 2757 Wet-Tap</p> <p>3-2756-WT-1 3-2756-WTP-1 3-2757-WT 3-2757-WTP</p> 
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2. Determine the mounting style:

<p>In-line</p>  <p>2760-11 or -21</p>	 <p>2760-11 or -21</p>  <p>2760-1 or -2</p>	 <p>2760-11 or -21</p>  <p>2760-1 or -2</p>	 <p>2760-11 or -21</p>  <p>2760-1 or -2</p>	 <p>2760-11 or -21</p>
<p>And</p>				
<p>-In-line fitting</p>  <p>Signet fitting</p>	 <p>3/4" reducing tee</p>	 <p>1" threaded tee</p>	 <p>3/4" reducing tee</p>	 <p>3719 Wet-Tap Assembly</p>
<p>Submersible</p>	<p>2760-1 or -2 and cable conduit (customer supplied) connected to 3/4" sensor electronics</p> 			<p>(Submersible not applicable with Wet-Tap assembly)</p>

4. Choose the output instrument

<p>Digital (S³L)</p> <p>Or</p> <p>4 to 20 mA</p>	 <p>5700</p>	<p>OR</p>	 <p>8750</p>
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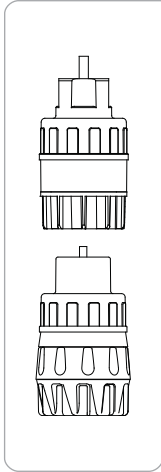
Model 2760 Ordering Information

- 1) Conduit and mounting brackets for submersion installation must always be used (customer supplied).
- 2) The 3-2759 System Tester must be ordered with the adapter cable 3-2759.391 for exclusive use with the 2760.
- 3) All sensor preamplifiers and connectors require a DryLoc® electrode for full system installation.
- 4) Use Models 2724-2726, 2756-WT, 2757-WT, 2764-2767 and 2774-2777 pH and ORP electrodes with the 2760.

Application Tips

- The EasyCal feature automatically recognizes standard 4.0, 7.0, and 10.0 pH buffer or ORP Quinhydrone solutions of 87 and 264 mV and simplifies calibration
- Frequency of calibration of electrodes is dependent upon the application.

Ordering Information



Mfr. Part No.	Code	Description
Submersible pH/ORP Preamplifier (gray body) for use with the 8750 or 5700 instrument		
3-2760-1	159 000 939	¾ in. NPT threads and 4.6 m (15 ft) cable
3-2760-2	159 000 940	¾ in. ISO threads and 4.6 m (15 ft) cable
In-line pH/ORP Preamplifier (yellow body); use with Signet fittings or wet-tap sensors and other manufacturers instruments		
3-2760-11	159 001 367	¾ in. NPT threads and 4.6 m (15 ft) cable
3-2760-21	159 001 368	with ¾ in. ISO threads and 4.6 m (15 ft) cable
Submersible Connector (gray body) for use with other manufacturer's instruments		
3-2760-3	159 000 941	4.6 m (15 ft) cable and ¾ in. NPT threads
3-2760-4	159 000 942	4.6 m (15 ft) cable and ISO 7/1R 3/4 threads
In-line pH/ORP Connector (yellow body); use with Signet fittings or wet-tap sensors and other manufacturers instruments		
3-2760-31	159 001 369	4.6 m (15 ft) cable and ¾ in. NPT threads
3-2760-41	159 001 370	4.6 m (15 ft) cable and ISO 7/1R 3/4 threads

Accessories and Replacement Parts

Mfr. Part No.	Code	Description
Calibration		
3-2700.395	159 001 605	Calibration kit: includes 3 polypropylene cups, box used as cup stand, 1 pint pH 4.01, 1 pint pH 7.00)
3822-7115	159 001 606	20 gm bottle quinhydrone for ORP calibration (must use pH 4.01 and/or pH 7.00 buffer solutions)
3-2759	159 000 762	pH/ORP system tester (adapter cable sold separately)
3-2759.391	159 000 764	2759 adapter cable for use with 2750 and 2760 DryLoc® sensor electronics
3-0700.390	198 864 403	pH buffer kit (1 each 4, 7, 10 pH buffer in powder form, makes 50 ml of each)
3822-7004	159 001 581	pH 4 buffer solution, 1 pint (473 ml) bottle
3822-7007	159 001 582	pH 7 buffer solution, 1 pint (473 ml) bottle
3822-7010	159 001 583	pH 10 buffer solution, 1 pint (473 ml) bottle
Other		
5523-0624	159 000 636	Cable, 6-cond. plus shield, 24 AWG, black/red/white (for use with 2760, orders must specify length per foot)
3-8050	159 000 184	Universal mounting kit
3-8050.390-1	159 001 702	Retaining nut replacement kit, Valox K4530
3-8050.391	159 001 703	Retaining nut replacement kit, Stainless Steel

3-2760.099 Rev D (10/11)

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