

# 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.

The 2760 pH/ORP Preamplifiers are compatible with the Signet 5700, 8750 and older analog transmitters. The 8900 and 9900 Transmitters require the use of the 2750 sensor electronics, and are not compatible with the 2760 preamplifier.

## Features

- In-line integral mount and submersible installation versions
- Compatible with pH or ORP sensors
- Patented DryLoc® connector provides a quick and secure connection to the sensor\*



## 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

\*U.S. Patent No.: 6,666,701

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# 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, FCC		
	RoHS compliant, China RoHS		
	Manufactured under ISO 9001 for Quality and ISO 14001 for Environmental Management and OHSAS 18001 for Occupational Health and Safety		

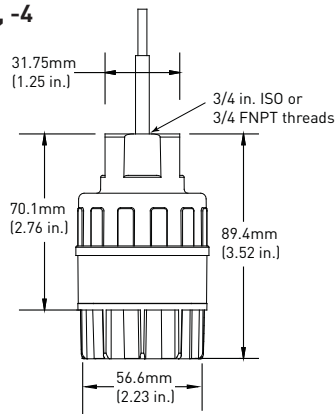
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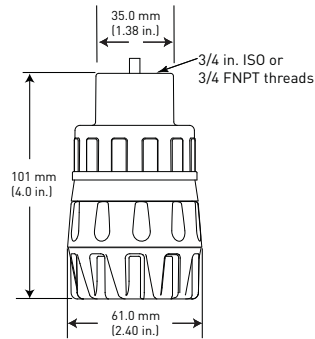
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Dimensions

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






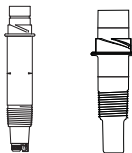








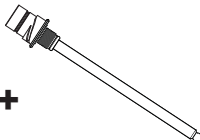
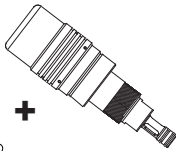
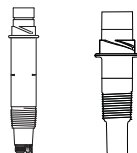
3-2760-11, -21, -31, -41



In-Line Installation




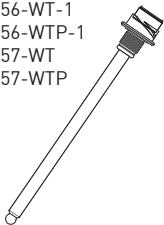
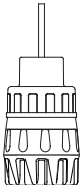
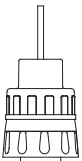

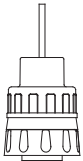
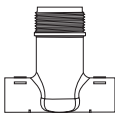
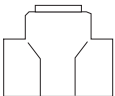
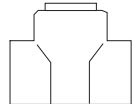
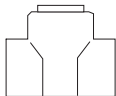
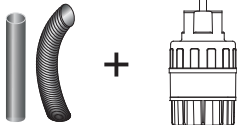
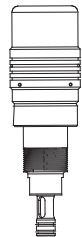
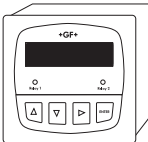
System Overview

Panel Mount	Field Mount - Pipe, Tank, Wall
Signet Instrument 8750 	Signet Instrument 8750 with Signet 3-8050 Universal Mount Kit  + 
Signet 2760 Preamplifier 	Signet 2760 Preamplifier 
Signet Electrodes 2724-2726 2764-2767 2774-2777 	
2724-2726 Electrodes: Use GF Fittings* or customer supplied 3/4 in. NPT fittings 2764-2767 use 1 in. NPT fittings, 2774-2777 use 3/4 in. NPT fittings. All customer supplied.	
All sold separately	

Submersible Installation	Wet-Tap Installation	
<b>Panel Mount</b> Signet Instruments 8750 	<b>Field Mount - Pipe, Tank, Wall</b> Signet Instruments 8750 	<b>Panel Mount</b> Signet Instrument 8750 with Signet 3-8050 Universal Mount Kit  + 
<b>Signet 2760 Sensor Electronics</b> with customer supplied pipe extension or conduit, 3/4 in. NPT or ISO 7/1-R 3/4 threads** 	<b>Signet 2760 Sensor Electronics</b> with Signet Wet-Tap Electrode 2756, 2757 and Signet 3719 Wet-Tap  +  + 	
Signet Electrodes 2724-2726 2764-2767 2774-2777 		
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.

2760 Product Selection Guide

<b>1. Choose the Electrode</b>		2724-2726  3-2724-10, -11 3-2725-60, -61 3-2726-10, -11 3-2726-HF-10, -11 3-2726-LC-10, -11  		2764-2767 Differential  3-2764-1 3-2765-1 3-2766-1 3-2767-1  		2774-2777  3-2774 3-2775 3-2776 3-2777  		2756 and 2757 Wet-Tap  3-2756-WT-1 3-2756-WTP-1 3-2757-WT 3-2757-WTP  	
<b>2. Determine the mounting style:</b>		In-line    2760-11 or -21  And		  2760-11 or -21    2760-1 or -2  Or		  2760-11 or -21    2760-1 or -2  Or		  2760-11 or -21    2760-1 or -2  Or	
-In-line fitting		  Signet fitting		  3/4" reducing tee		  1" reducing threaded tee		  3/4" reducing tee	
Submersible		2760-1 or -2 and cable conduit (customer supplied) connected to 3/4" sensor electronics  		  3719 Wet-Tap Assembly  [Submersible not applicable with Wet-Tap assembly]					
<b>4. Choose instrument</b>		4 to 20 mA    8750							

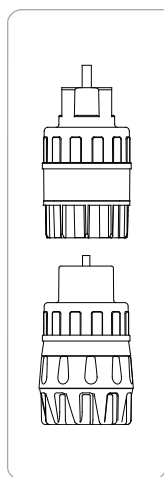
#### **Model 2760 Ordering Information**

- 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 instrument		
3-2760-1	<b>159 000 939</b>	¾ in. NPT threads and 4.6 m (15 ft) cable
3-2760-2	<b>159 000 940</b>	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	<b>159 001 367</b>	¾ in. NPT threads and 4.6 m (15 ft) cable
3-2760-21	<b>159 001 368</b>	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	<b>159 000 941</b>	4.6 m (15 ft) cable and ¾ in. NPT threads
3-2760-4	<b>159 000 942</b>	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	<b>159 001 369</b>	4.6 m (15 ft) cable and ¾ in. NPT threads
3-2760-41	<b>159 001 370</b>	4.6 m (15 ft) cable and ISO 7/1R 3/4 threads

## Accessories and Replacement Parts

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

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