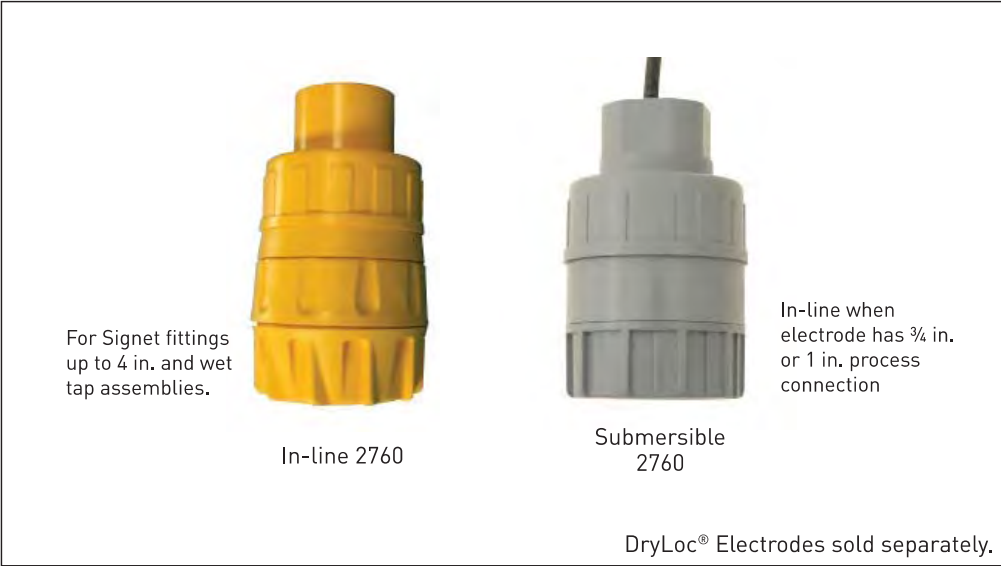


# Signet 2760 DryLoc® pH/ORP Preamplifiers & Connectors





- ### Features
- In-line integral mount and submersible installation versions
  - Automatic temperature compensation
  - Auto configuration for pH or ORP operation
  - 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

### Description

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













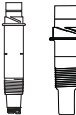

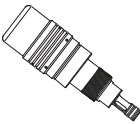

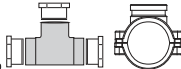
The 2760 preamplifier allows any DryLoc pH/ORP electrode to work with Signet ProcessPro® and ProPoint® pH/ORP instruments. It is also sold as a simple connector for use with other manufacturers' instruments that do not require a preamplified signal.

The DryLoc electrode connector system quickly forms a robust assembly for submersible and in-line installations. 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 3/4 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.

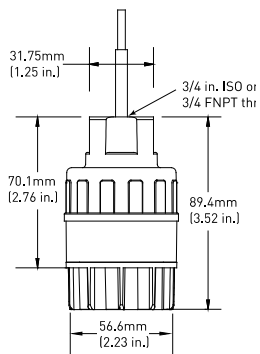


## System Overview

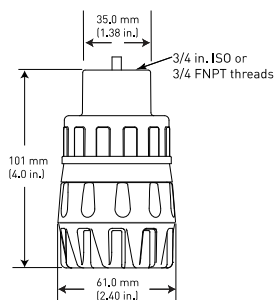
In-Line Installation		Submersible Installation	Wet-Tap Installation	
<b>Panel Mount</b> Signet Instrument (sold separately) 5700, 8750 	<b>Pipe, Tank, Wall Mount</b> Signet pH/ORP Transmitter (sold separately) 8750  Signet Universal Mount Kit (3-8050) (sold separately) 	<b>Panel, Pipe, Tank, Wall Mount</b> Signet Instrument (sold separately) 5700 8750  	<b>Panel Mount</b> Signet Instrument (sold separately) 5700, 8750 	<b>Pipe, Tank, Wall Mount</b> Signet pH/ORP Transmitter (sold separately) 8750  Signet Universal Mount Kit (3-8050) (sold separately) 
<b>Signet 2760 Preamplifier</b> 	<b>Signet 2760 Preamplifier</b> 	Pipe extension or conduit with 3/4 in. NPT or ISO 7/1-R 3/4 threads (customer supplied) 	<b>Signet 2760 Preamplifier with Signet Wet-Tap Electrode 2756, 2757 (each sold separately)</b> 	
<b>DryLoc® pH/ORP Electrodes</b> 2724-2726, 2764-2767, 2774-2777 (sold separately) 		<b>Signet 2760 and Preamplifier</b> 	<b>Signet 3719 Wet-Tap (sold separately)</b> 	
2724-2726 DryLoc® Electrodes: Use GF Fittings* or 3/4 in. NPT fittings (customer supplied) 2764-2767 and 2774-2777 DryLoc® Electrodes: Use 3/4 in. or 1 in. NPT fittings (customer supplied)		DryLoc® pH/ORP Electrodes 2724-2726, 2764-2767, 2774-2777 (sold separately) 	GF PP Clamp-On Saddles for 3719 Wet-Tap or GF Tees and Fittings (sold separately) see model 3719 for more info 	

## Dimensions

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



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



## 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:  $\pm 2,000$  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:

- Temperature (submersible): 0 °C to 85 °C (32 °F to 185 °F)
- Temperature (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:




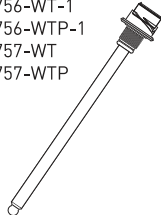
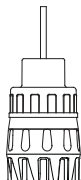



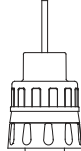

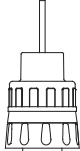
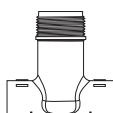
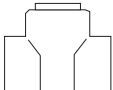
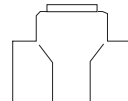
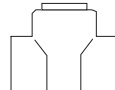



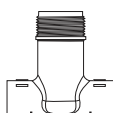
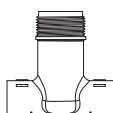
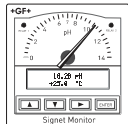

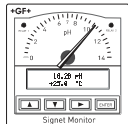

- Submersible: NEMA 6P/IP68 with electrode and watertight conduit and/or extension pipe connected
- In-line: NEMA 4 with electrode and watertight conduit and/or extension pipe connected

**Shipping Weight** 0.64 kg 1.41 lb

### Standards and Approvals

- CE
- Manufactured under ISO 9001 for Quality and ISO 14001 for Environmental Management

2760 Product Selection Guide




Electrode	3-2724-10, -11 3-2725-60, -61 3-2726-10, -11 3-2726-HF-10, -11 3-2726-LC-10, -11			3-2764-1 3-2765-1 3-2766-1 3-2767-1			3-2774 3-2775 3-2776 3-2777			Wet-Tap 3-2756-WT-1 3-2756-WTP-1 3-2757-WT 3-2757-WTP												
2. Determine the mounting style:	In-line		2760-11 or -21			2760-1 or -2			2760-11 or -21			2760-1 or -2			2760-11 or -21			2760-1 or -2			2760-11 or -21	
			Signet fitting			3/4" reducing tee			1" threaded tee			3/4" reducing tee										
	-In-line fitting																					
	Or																					
Submersible																						
																						
4. Choose the output instrument																						
																						
																						
																						

## Ordering Information

### Model 2760

#### Ordering Information

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

Preamplifier and Connector			
3-2760	pH/ORP Preamplifier (for use with the 8750 or 5700 instrument) or Connector (for use with other manufacturer's instruments) with 4.6 m (15 ft) cable		
	Preamplifier		
	-1	Preamplifier, with 3/4 in. NPT threads and 4.6 m (15 ft) cable	
	-2	Preamplifier, with 3/4 in. ISO threads and 4.6 m (15 ft) cable	
	Connectors (for use with other manufacturer's instruments)		
	-3	Connector with 4.6 m (15 ft) cable and 3/4 in. NPT threads	
	-4	Connector with 4.6 m (15 ft) cable and ISO 7/16 3/4 threads	
		Mounting Configurations	
		-	Submersible mounting (gray body)
		1	In-line mounting (yellow body); use for wet-tap sensors
			
3-2760	-2		Example Part Number

Mfr. Part No.	Code
3-2760-1	<b>159 000 939</b>
3-2760-2	<b>159 000 940</b>
3-2760-3	<b>159 000 941</b>
3-2760-4	<b>159 000 942</b>
3-2760-11	<b>159 001 367</b>
3-2760-21	<b>159 001 368</b>
3-2760-31	<b>159 001 369</b>
3-2760-41	<b>159 001 370</b>

## Accessories and Replacement Parts

### 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.

Mfr. Part No.	Code	Description
<b>Calibration</b>		
3-2700.395	<b>159 001 605</b>	Calibration kit: includes 3 PP cups, 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)
3-8050.390-1	<b>159 001 702</b>	Retaining nut replacement kit, Valox K4530
3-8050.391	<b>159 001 703</b>	Retaining nut replacement kit, Stainless Steel

3-2760.099 Rev C (06/11)

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