

+GF+ Signet Analytical Measurement & Instrumentation

George Fischer Signet delivers sophisticated, advanced flow and analytical technology, which offer accuracy, dependability, ease of use, and minimal maintenance. Every sensor, transmitter, controller and monitor manufactured meets the highest of standards. Engineered for performance, Signet products are ideally suited for Chemical Process, Food and Beverage, Life Sciences, Shipbuilding, Semiconductor, Water and Waste Water Treatment, including the Pool Industry, and Agriculture.

This pricelist is designed to be read in conjunction with the +GF+ Signet Catalogue, available on request, or the website, www.gfsignet.com. For details on the +GF+ Signet range of Flow Instrumentation, please refer to the separate price list.

ANALYTICAL - pH / ORP

The Signet 2724-2726 pH and ORP electrodes feature a patented reference electrode design and use the unique foul-proof patented DryLoc® connector, with gold plated contacts. The robust Ryton® threaded sensor body and choice of flat pH, bulb pH, or flat ORP sensing elements provides broad range of chemical compatibility for a wide variety of applications.

The Signet 2764-2767 Differential pH & ORP electrodes are built to handle even the most extreme and harshest of chemical applications. The pH and reference electrodes are measured against a ground electrode, insuring a steady and stable signal. To ensure a long service life, the reference cell features a refillable electrolyte chamber and a replaceable equitransferant salt bridge, both easily serviced in the field.

(The 2714 Twist-Loc series of electrodes and associated preamplifiers has been discontinued, and replaced with the below)

2724-2726 pH AND ORP ELECTRODES



Mount using Signet Install Tee or 3/4" thread

	Code	Price
For Use with 2750 Sensor Electronics and 9900 Transmitter		
Flat pH	SG3-2724-00	
Bulb pH	SG3-2726-00	
Bulb pH, HF	SG3-2726-HF-00	
Bulb pH, Low Cond.	SG3-2726-LC-00	
For Use with 2760 Preamplifier and 8750 Transmitter		
Flat pH	SG3-2724-10	
Bulb pH	SG3-2726-10	
Bulb pH, HF	SG3-2726-HF-10	
Bulb pH, Low Cond.	SG3-2726-LC-10	
For Use with either 2750 or 2760		
Flat, ORP	SG3-2725-60	

2764-2767 DIFFERENTIAL pH AND ORP ELECTRODES



Mount using Signet Install Tee or 1" NPT thread

	Code	Price
For Use with 2750 Sensor Electronics and 9900 Transmitter		
Flat pH	SG3-2764-2	
Bulb pH	SG3-2766-2	
For Use with 2760 Preamplifier and 8750 Transmitter		
Flat pH	SG3-2764-1	
Bulb pH	SG3-2766-1	
For Use with either 2750 or 2760		
Flat, ORP	SG3-2765-1	

Other Differential Electrodes are available for use with the Signet Multiparameter unit, and also as 3000 units for connection to other brands of instruments.

PRICES INDICATED DO NOT INCLUDE GST



ANALYTICAL - pH / ORP CONT...

Signet pH and ORP electrodes can be used with a sensor electronics unit as a stand alone "blind" instrument with 4-20mA output, or combine with the +GF+ Signet 9900 Transmitter for local display and various output and control functions.

2750 SENSOR ELECTRONICS FOR DIRECT 4-20MA OUTPUT



Produces a direct 4-20mA output for use when a blind meter is required. The EasyCal feature recognises common pH and ORP buffer values.

	Code	Price
Inline Sensor, Yellow Body		
Electrics Only for use with 9900	SG3-2750-1	
Electronics with EasyCal for stand alone "blind"	SG3-2750-2	
Submersible Sensor, NPT		
Electronics Only for use with 9900	SG3-2750-3	

2760 PREAMPLIFIER AND CONNECTOR FOR CONNECTION TO OTHER INSTRUMENTS



Use a 2760 Preamplifier for connection to Signet 8750. Use a Connector for use with other manufacturer's units.

	Code	Price
Inline Mounting		
Preamplifier	SG3-2760-11	
Connector	SG3-2760-31	
Submersible Sensor, NPT		
Preamplifier, 4.6m cable	SG3-2760-1	
Connector, 4.6m cable	SG3-2760-3	

9900 FLOW TRANSMITTER



"At a glance visibility" due to extra large characters and a digital bar graph from an auto-sensing backlit LCD display. Single sensor input compatible with signals from all GF Signet Flow, pH/ORP, Conductivity, Salinity, Pressure or Temperature sensors as well as any non-GF Signet sensors that outputs a 4-20mA signal (requires GF Signet 8058 signal converter). One permanent and one resettable totaliser, LED relay or warning indicators.

Analogue (4 – 20MA) and open collector with user selectable pulse units output.

Relay module is an optional extra and can be retrofitted (Panel version only). Panel or field mount versions available. Requires 12 to 32VDC power supply.

	Code	Price
Field Mount	SG3-9900-1	
Panel Mount	SG3-9900-1P	

Optional Extras:

Relay Module	SG3-9900.393
Conductivity Module	SG3-9900.394

8050 Universal Mount Kit

Universal Mount Kit is used to mount a field mount transmitter onto a pipe, wall, or other flat surface.

	Code	Price
	SG3-8050	

pH / ORP CALIBRATION AND MAINTENANCE SOLUTIONS

Buffer Solutions

The mV output from the pH electrode is created by the interaction between the electrode and the fluid. The electrode contains a gel that depletes over time, so the instrument must be readjusted periodically to maintain system accuracy.

The Signet pH buffers are ideal for routine calibration requirements.

For ease of transportation, pH buffer kits are available in powder form. 1 kit provides enough to make 50mls of 4,7, and 10pH buffer solution.

	Code	Price
	SG3-0700.390	

Replacements for Differential Electrodes

Signet Differential pH and ORP electrodes can be used in more aggressive applications, and can be maintained to improve their service life before replacement becomes necessary.




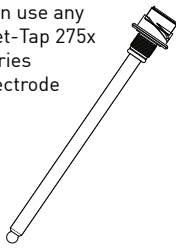
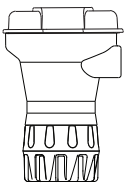
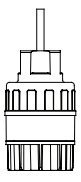
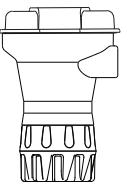
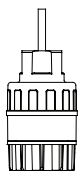
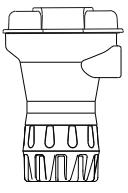
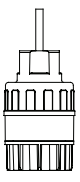
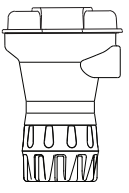
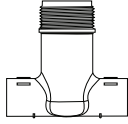
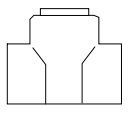
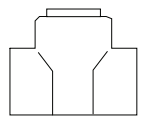
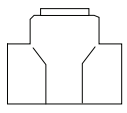

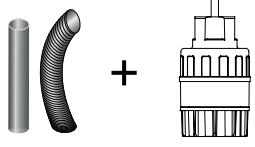
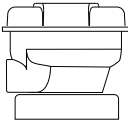
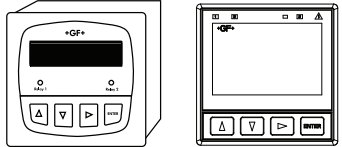
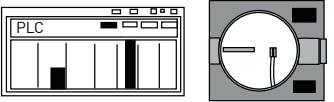
If readings become inaccurate by more than 50mV it is recommended to replace the electrolyte solution.

If readings start to slowly drift, or respond slowly, then the salt bridge should be replaced.

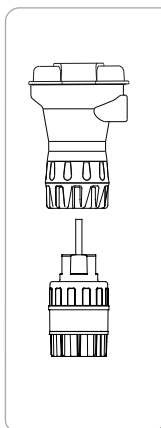
	Code	Price
Replacement Salt Bridge	3864-0001	
Replacement Electrolyte Solution, 500mls	3864-0002	



2750 Product Selection Guide

2750 Product Selection Guide	1. Choose the Electrode	<p>2724-2726</p> <p>Can use Any 3-272x series Electrode</p> 		<p>2764-2767 Differential</p> <p>3-2764-1 3-2764-2 3-2766-1 3-2766-2</p> 		<p>2774-2777</p> <p>ORP electrodes must have 10K ID resistor use: 3-2775, 3-2777</p> <p>pH Electrodes can be either the 1K or 3K use: 3-2774, 3-2774-1, 3-2776, 3-2776-1</p> 		<p>2756 and 2757 Wet-Tap</p> <p>Can use any Wet-Tap 275x series electrode</p> 						
	2. Determine the mounting style:	<p>In-line</p>  <p>2750-1 or -2</p>		 <p>2750-3 or -4</p>		 <p>2750-1 or -2</p>		 <p>2750-3 or -4</p>		 <p>2750-1 or -2</p>		 <p>2750-3 or -4</p>		 <p>2750-1 or -2</p>
	And	<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>				
	Or	<p>Submersible</p> <p>2750-3 or -4 and cable conduit (customer supplied) connected to 3/4" sensor electronics</p> 						<p>(Submersible not applicable with Wet-Tap assembly)</p>						
3. Junction Boxes	<p>3-8050-1: Use when extending the submersible cable over long distance. 3-8050-2: Use with the submersible 2750-3 or -4 and the in-line 2750-1 for best calibration results with the EasyCal function when using the blind 4 to 20 mA output.</p>													
4. Choose the output instrument	<p>Digital (S³L)</p>  <p>8900 or 9900 Instruments</p>		OR		 <p>PLCs or Chart Recorders</p>				<p>4 to 20 mA</p>					

Ordering Information



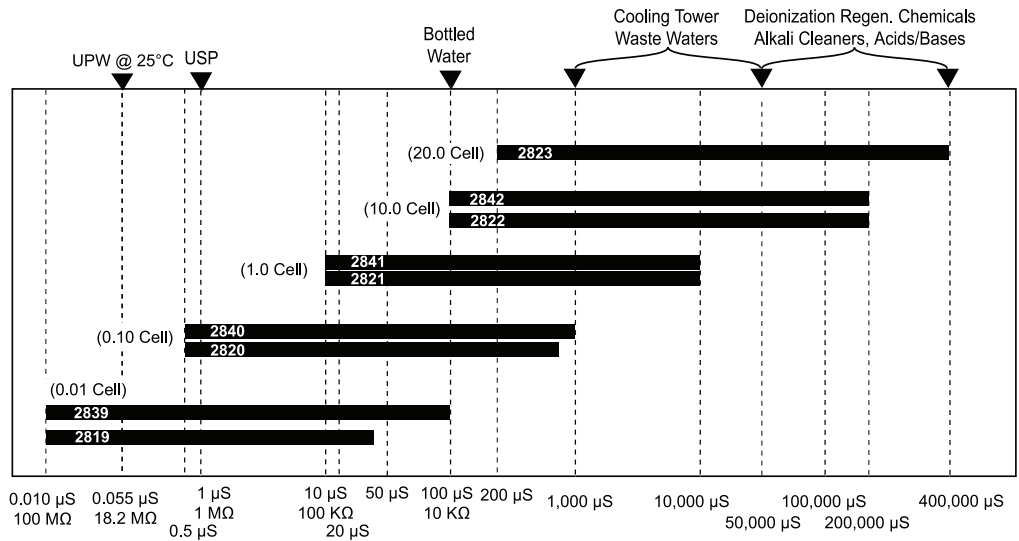
Mfr. Part No.	Code	Description
In-line Sensor Electronics (Yellow body)		
3-2750-1	159 000 744	Recommended for 8900 or 9900 instruments
3-2750-2	159 000 745	with EasyCal, recommended for 4 to 20 mA use
Submersible Sensor Electronics (Grey body)		
3-2750-3	159 000 746	with 4.6 m (15 ft) cable and 3/4 in. NPT threads - when 4 to 20 mA is required use the 3-8050-2 junction box with EasyCal
3-2750-4	159 000 842	Submersible Sensor electronics with 4.6 m (15 ft) cable and ISO 7/1R 3/4 threads - when 4 to 20 mA is required use the 3-8050-2 junction box with EasyCal

Sensor Electronics with preamplified signal and Digital (S³L) output (for use with the Multi-Parameter Instruments) or 4 to 20 mA output - power supplied to unit dictates output type.



CONDUCTIVITY

Signet Conductivity/Resistivity Sensors are designed to provide versatile installation and accurate sensing across a very broad dynamic range. Coupled with Signet-patented measuring circuitry a three decade range with $\pm 2\%$ of reading accuracy is achieved.



2819-2823 CONDUCTIVITY ELECTRODES



2819-2823 Electrodes are available with 3/4in NPT process connections as standard. 1-1/2in or 2in tri-clamp options are available.

Code	Price
0.01cm cell	SG3-2819-1
0.1cm cell	SG3-2820-1
1cm cell	SG3-2821-1
10cm cell	SG3-2822-1
20cm cell	SG3-2823-1

2839-2842 CONDUCTIVITY ELECTRODES



2839-2842 Electrodes offer a compact solution, and are dual 3/4in threaded for ease of installation in submerged applications.

Code	Price
0.01cm cell	SG3-2839-1
0.1cm cell	SG3-2840-1
1cm cell	SG3-2841-1
10cm cell	SG3-2842-1

Any of the above electrodes can be used with one of the GF Signet Conductivity Instruments to give various configurations of digital and analogue display, and outputs. Alternatively the 2839-2842 range can be coupled with the 2850 Sensor Electronics to give an Integrally Mounted blind 4-20mA output.

2850 SENSOR ELECTRONICS



Direct 4-20mA Output, with EasyCal. Suitable for Integral Mounting with a 2839-2842 Electrode.

Code	Price
Integral / Standpipe Mount	SG3-2850-52
Universal Mount	SG3-2850-62

8860 TWO CHANNEL CONDUCTIVITY CONTROLLER



Dual Sensor Input, and 3 fully scaleable 4-20mA Outputs. Ideal for Water treatment applications, Display and /or control μS , mS , PPM, PPB, $\text{k}\Omega$, $\text{M}\Omega$. Calculated measurements include Difference, Ratio, or % Rejection.

Code	Price
SG3-8860	
SG3-8860-AC	

TEMPERATURE

2350 TEMPERATURE SENSOR

One Piece PVDF Body, Digital or 4-20mA Output



Code	Price
SG3-2350-1	
SG3-2350-2	
SG3-2350-3	

Compatible with 9900, or Stand-alone

PRESSURE

2450 PRESSURE SENSOR

One Piece PVDF Body, Digital or 4-20mA Output, 0-10 psi, 0-50psi, or 0-250psi



Code	Price
SG3-2450-1L	
SG3-2450-3U	
SG3-2450-3H	
SG3-2450-7H	

Compatible with 9900, or Stand-alone