# +GF+ SIGNET ANALYTICAL

PART OF MAIN FLOW CONTROL CATALOGUE



THE SMARTER CHOICE.



# ANALYTICAL MEASUREMENT AND 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 product list is designed to be read in conjunction with the +GF+ Signet Catalogue, available on request. For details on the +GF+ Signet range of Flow Instrumentation, please refer to the separate product 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<sup>®</sup> connector, with gold plated contacts. The robust Ryton<sup>®</sup> 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, 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



-	For Use with 2751 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 2751 or 2760	Flat, ORP	SG3-2725-60

Mount using Signet Install Tee or 3/4" thread NPT or BSP option available.

### 2764-2767 DIFFERENTIAL PH AND ORP ELECTRODES



		Code	
For Use with 2751 Sensor Electronics	Flat pH	SG3-2764-2	
and 9900 Transmitter	Bulb pH	SG3-2766-2	
For Use with 2760 Preamplifier and	Flat pH	SG3-2764-1	
8750 Transmitter	Bulb pH	SG3-2766-1	
For Use with either 2751 or 2760	Flat, ORP	SG3-2765-1	

Mount using Signet Install Tee or 1" NPT thread. Other Differential Electrodes are available for use with the Signet Multiparameter unit, and also as 3000 units for connection to other brands of instruments.

2751 SENSO	2751 SENSOR ELECTRONICS FOR DIRECT 4-20MA OUTPUT			
			Code	
	Inline Sensor, Yellow Body	Electrics Only for use with 9900	SG3-2751-1	
		4-20mA output with EasyCal	SG3-2751-2	
	Submersible Sensor, NPT	Electronics Only for use with	SG3-2751-3	
		9900		

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

# ANALYTICAL MEASUREMENT AND INSTRUMENTATION

# ANALYTICAL - pH / ORP

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.

9900 MULTI-INSTRUMENT TRANSMITTER			
			Code
	Field Mount		SG3-9900-1
H H + H A			
A # +6F+ 0000000000000000000000000000000000	Panel Mount		SG3-9900-1P
Standard Hold The Standard Sta			
	Optional Extras	4-20mA Module	SG3-9900.398-1
T A PARA		Relay Module	SG3-9900.393
BITTER		Conductivity Module	SG3-9900.394
8050 Universa		ount Kit	SG3-8050

"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 convertor).

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

9950 DUAL CHANNEL TRANSMITTER			
		Code	
The 9950-1 Transmitter is a two channel controller that supports two sensors of same or different types. The sensor types supported are Signet Flow, pH/ORP, Conductivity/Resistivity, Salinity, Temperature, Pressure, Level and Dissolved Oxygen. The 9950 includes advanced features such as derived functions, advanced multiple relay modes, and timer-based relay functions.	он 25.0 FEET 0.0 б0.0 бРМ 2.1887.3 тв.3 «сг+	SG3-9950-1	
9950 SIX CHANNEL CONTROLLER			

#### The 9950-10 is a multi-channel, multi-sensor controller that supports ALL like sensors or a mix of any GF sensors. Sensor types supported are Signet Flow (Frequency and/or digital S<sup>3</sup>L), pH/ORP, Conductivity/ Resistivity, Salinity, Temperature, Pressure, Level and dissolved Oxygen, as well as any device that transmits a 4 to 20 mA signal when used with the single channel 3-8058 iGo<sup>®</sup> Signal Converter.

 The 9950-10 base unit comes complete with two each 4 to 20 mA output, plus two additional dual 4 to 20 mA output modules can be installed to increase the number of 4 to 20 mA outputs to a total of 6 outputs. Four Conductivity sensor measurements are supported with either a single or dual channel conductivity module.



Code SG3-9950-10



# ANALYTICAL MEASUREMENT AND INSTRUMENTATION

# **2751 Product Selection Guide**



# ANALYTICAL MEASUREMENT AND INSTRUMENTATION

# 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.



2850 INTEGRAL MOUNT		
		Code
	Integral / Stand- pipe Mount	SG3-2850-52
	Integral Conductivity System	

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



One Piece PVDF Body, Digital or 4-20mA Output. Compatible with 9900, or Stand-alone.

#### 2819-2823 CONDUCTIVITY ELECTRODES

		Code
11111	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

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

#### 2839-2842 CONDUCTIVITY ELECTRODES

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

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

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.



One Piece PVDF Body, Digital or 4-20mA Output, 0-10 psi, 0-50psi, or 0-250psi. Compatible with 9900, or Stand-alone.



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