

Signet Conductivity/Resistivity Integral Systems with 9900 Transmitter **+GF+**

Member of the SmartPro® Family of Instruments



Signet has combined the 9900 SmartPro® Transmitter with conductivity and resistivity sensors to create integral systems that are easy to order and simple to install. Also available in flow, level, temperature and pressure configurations, each integral system features a 9900 Transmitter which provides a local and easy to read LCD display. The push button keypad makes it easy to navigate through the transmitter's menu. The DC-powered 9900 features a scalable 4 to 20 mA output and open collector for process control.

The integral system is also offered with a choice of Signet conductivity and resistivity sensors, Models 2839, 2840, 2841, and 2842 in 0.01, 0.1, 1.0, or 10.0 cm⁻¹ cell constants, respectively. These sensors are field proven and reliably perform in ranges from 18.2 MΩ (0.055 μS) to 200,000 μS. They are ideal for installation into standard pipes via the ¾ inch sensor threaded (NPT or ISO) process connection. The sensors are available with 316 stainless steel and PVDF wetted materials.



Features

- Local Display for sensor mounted instruments
- Provides 4 to 20 mA output
- "At a glance" visibility
- "Dial-type" digital bar graph
- NEMA 4X/IP65 enclosures
- Large selection of Signet Conductivity and Resistivity sensors available



Applications

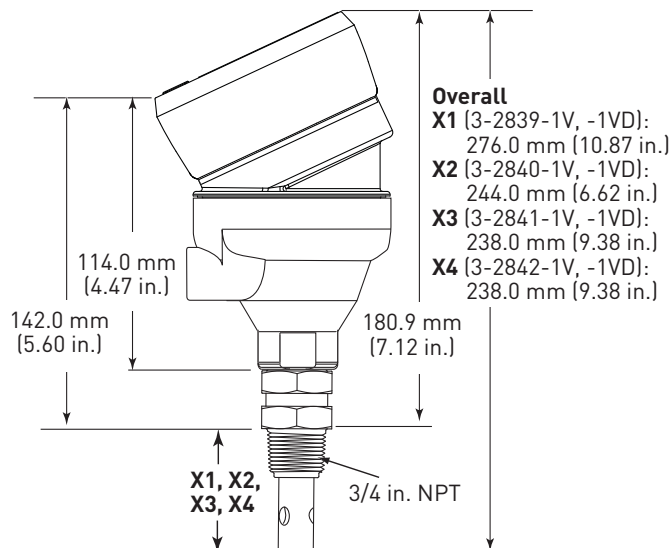
- RO/DI System Control
- Cooling Tower Control
- Water Quality Monitoring
- Filtration Systems
- Scrubber Systems
- Boiler Condensate
- Semiconductor Water Production
- Leak Detection

System Overview	Integral Installation	
	Signet Model 9900 Transmitter 3-9900.394 Direct Conductivity/Resistivity Module, 3-8052 Integral Mount Kit and 3-9900.396 Angle Adapter	
		
	Signet Dual Threaded Conductivity Electrodes 2839 2841 2840 2842	
		
Customer supplied standard ¾ in fittings		

Specifications

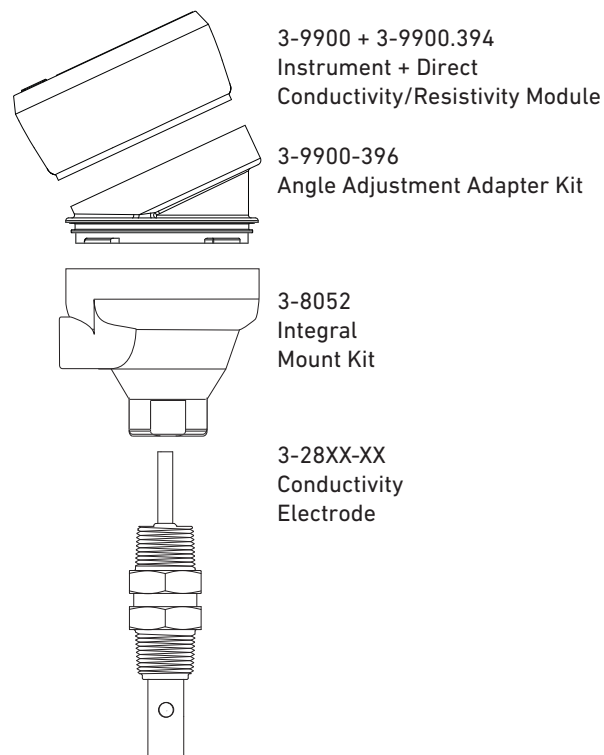
See individual instrument and sensor/electrode catalog pages for more information. Refer to Models 2839, 2840, 2841, 2842, and 9900 technical specifications for more details on these products.

Dimensions



Electrode

- X1** (3-2839-1V, -1VD): 73mm (2.88 in.)
- X2** (3-2840-1V, -1VD): 35mm (1.38 in.)
- X3** (3-2841-1V, -1VD): 41.3mm (1.63 in.)
- X4** (3-2842-1V, -1VD): 41.3mm (1.63 in.)



3-9900 + 3-9900.394
Instrument + Direct
Conductivity/Resistivity Module

3-9900-396
Angle Adjustment Adapter Kit

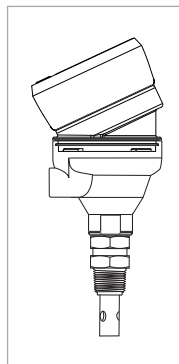
3-8052
Integral
Mount Kit

3-28XX-XX
Conductivity
Electrode

Ordering Notes

Integral Mounts are available with all parts conveniently assembled (transmitter, conductivity module, angle adapter, integral mount kits and electrode). Alternatively, all five parts can be purchased separately. See individual instrument and sensor pages for more information. Part numbers below can be ordered in Europe. All other global regions contact GF Signet Special Order products for pricing and availability.

Ordering Information



Mfr. Part No. /Code	Instrument + Sensor	Description
159 001 728	3-9900-1 + 3-2839-1V	Cell constant: 0.01 cm-1, 3/4 in. NPT
159 001 729	3-9900-1 + 3-2840-1V	Cell constant: 0.1 cm-1, 3/4 in. NPT
159 001 730	3-9900-1 + 3-2841-1V	Cell constant: 1.0 cm-1, 3/4 in. NPT
159 001 731	3-9900-1 + 3-2842-1V	Cell constant: 10.0 cm-1, 3/4 in. NPT
159 001 757	3-9900-1 + 3-2839-1VD	Cell constant: 0.01 cm-1, ISO 7/1-R 3/4
159 001 758	3-9900-1 + 3-2840-1VD	Cell constant: 0.1 cm-1, ISO 7/1-R 3/4
159 001 759	3-9900-1 + 3-2841-1VD	Cell constant: 1.0 cm-1, ISO 7/1-R 3/4
159 001 732	3-9900-1 + 3-2842-1VD	Cell constant: 10.0 cm-1, ISO 7/1-R 3/4

Please refer to Wiring, Installation, and Accessories sections for more information.

3-9900-2839.099 Rev C (02/16)

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