Signet 8850 Conductivity/Resistivity Transmitters





Check out the 9900 Transmitter for your single channel needs

Member of the ProcessPro[®] Family of Instruments





Panel Mount

Pipe, Tank, Wall and Integral Mount

The Signet 8850 Conductivity/Resistivity Transmitter is designed for multiple installation capabilities, simple set-up and easy operation, thus satisfying a broad range of application requirements.

The 8850 comes equiped with two 4 to 20 mA loop outputs and two open collector relays. It is offered with a NEMA 4X/IP65 front panel with a self-healing window in a convenient ¼ DIN package for easy mounting. The 8850 can be configured via a simple menu system.

In addition to programmable outputs and relays, the unit can also be set up to measure raw conductivity values.

Features

- Display choices of $\mu S,\,mS,\,K\Omega,\,M\Omega,\,PPM$ (TDS)
- Simulate function
- Programmable temperature compensation
- Two open collectors
- Dual output option allows temperature and process signal transmission
- NEMA 4X/IP65 enclosure with self-healing window
- Compatible with ALL Signet conductivity electrodes



Applications

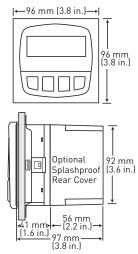
- RO/DI System Control
- Rinse Tank Control
- Cooling Tower, Scrubber or Blowdown Control
- Environmental Study (TDS)
- Desalination Monitor
- Water Quality Monitoring
- Leak Detection
- Chemical Concentration

Specifications

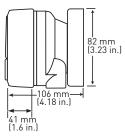
General						
Compatible Electrodes	All Signet conductivity/resist	All Signet conductivity/resistivity electrodes				
Sensor Input Range						
Conductivity	0.055 to 400,000 μS/cm					
Resistivity	10 KΩ•cm to 18.2 MΩ•cm					
TDS	0.023 to 200,000 ppm					
Temperature	PT1000	-25 °C to 120 °C	-13 °F to 248 °F			
Accuracy						
Conductivity/Resistivity	±2% of reading					
Temperature	±0.75 °C					
Display	Alphanumeric 2 x 16 LCD					
Contrast	User selected, 5 levels					
Update Rate	1.8 seconds	1.8 seconds				
Materials						
Case	PBT					
Keypad	Sealed 4-key silicone rubber	Sealed 4-key silicone rubber				
Panel and Case Gasket	Neoprene					
Window	Polyurethane coated polycar	oonate				
Electrical						
Power	12 to 24 VDC ±10% regulated					
	100 mA max.					
Current Output	Dual 4 to 20 mA, isolated, passive, fully adjustable and reversible					
Max. Loop Impedance	50 Ω max. @ 12 V					
	325 Ω max. @ 18 V					
	600 Ω max. @ 24 V					
Update Rate	200 ms					
Accuracy	±0.03 mA @ 25°C, 24 V					
Open Collector Output	High, Low, Pulse, Off					
Max. Voltage Rating	50 mA max sink, 30 VDC max					
Hysteresis	User adjustable					
	Max 400 pulses/min.					
Environmental	· ·					
Operating Temperature	-10 °C to 70 °C	14 °F to 158 °F				
Storage Temperature	-15 °C to 80 °C	5 °F to 176 °F				
Relative Humidity	0 to 95%, non-condensing	· · · · · · ·				
Enclosure		y on panel mount); field mount is	s 100% NEMA 4X/IP65			
Shipping Weight		,				
	0.6 kg	1.32 lb				
Standards and Approvals	0.0 Kg	1.02 10				
Standarus and Approvats	CE, FCC, UL, CUL					
	RoHS compliant, China RoHS Manufactured under ISO 9001 for Quality and ISO 14001 for Environmental Management and OHSAS 18001 for Occupational Health and Safety					

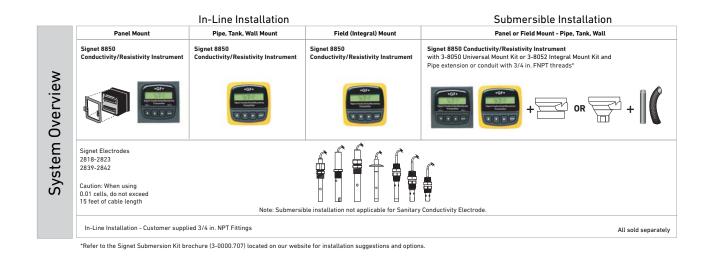
Dimensions

3-8850-XP Panel Mount



Field Version with Universal Mounting Kit





Ordering Notes

- 1) Instruments can be mounted directly to a sensor
- 2) Use the universal mount kit (3-8050) with the field mount instrument to mount to a pipe, tank or wall.
- 3) To mount the panel version to a wall, use the heavy duty wall mount bracket.

Ordering Information

Mfr. Part No.	Code	Input	Output	Power	
Conductivity/Resistivity Transmitter					
Integral mount package					
3-8850-3	159 000 232	One	Two 4 to 20 mA outputs and 2 open collectors	4 wire	
Panel mount package					
3-8850-3P	159 000 233	One	Two 4 to 20 mA outputs and 2 open collector	4 wire	

Accessories and Replacement Parts

Mfr. Part No.	Code	Description		
Mounting				
3-8050	159 000 184	Universal mounting kit		
3-8050.395	159 000 186	Splashproof rear cover (panel mount only)		
3-8052	159 000 188	³ ⁄ ₄ in. integral mounting kit		
3-8052-1	159 000 755	³ ⁄ ₄ in. NPT mount junction box		
3-0000.596	159 000 641	Heavy duty wall mount bracket (panel mount only)		
3-5000.399	198 840 224	Panel adapter, 5 x 5 in. to ¼ DIN		
3-5000.598	198 840 225	Surface mount bracket (panel mount only)		
3-8050.392	159 000 640	1/4 DIN retrofit adapter		
3-9900.396	159 001 701	Angle adjustment adapter kit		
Liquid Tight Connectors				
3-9000.392	159 000 368	Liquid tight connector kit for rear cover (3 connectors)		
3-9000.392-1	159 000 839	Liquid tight connector kit, NPT (1 connector)		
3-9000.392-2	159 000 841	Liquid tight connector kit, PG 13.5 (1 connector)		