# 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

+GF+

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 ½ 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



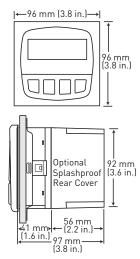
Tel: +44 (0) 1706 869777 E-mail: sales@desal.co.uk Web: www.desal.co.uk

# **Specifications**

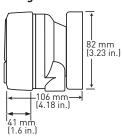
General				
Compatible Electrodes	All Signet conductivity/resistivity electrodes			
Sensor Input Range				
Conductivity	0.055 to 400,000 μS/cm			
Resistivity	10 KΩ•cm to 18.2 MΩ•cm			
TDS	0.023 to 200,000 ppm			
Temperature	PT1000	-25 °C to 120 °C	-13 °F to 248 °F	
Accuracy			·	
Conductivity/Resistivity	±2% of reading			
Temperature	±0.75 °C			
Display	Alphanumeric 2 x 16 LCD			
Contrast	User selected, 5 levels			
Update Rate	1.8 seconds			
Materials				
Case	PBT			
Keypad	Sealed 4-key silicone rubber			
Panel and Case Gasket	Neoprene			
Window	Polyurethane coated polycarbonate			
Electrical	,	,		
Power	12 to 24 VDC ±10% regulated			
1 00001	100 mA max.			
Current Output		assive, fully adjustable and reve	ersible	
Max Loop Impedance	50 Ω max. @ 12 V			
Max 200p Impedance	325 Ω max. @ 18 V			
	600 Ω max. @ 24 V			
Update Rate	200 ms			
<u>'</u>				
Accuracy Open Collector Output	±0.03 mA @ 25°C, 24 V			
Max Voltage Rating	High, Low, Pulse, Off 50 mA max sink, 30 VDC max			
	User adjustable			
Hysteresis	Max 400 pulses/min.			
Polov Output	·			
Relay Output  Max Voltage Rating	Mechanical SPDT contacts: High, Low, Pulse, Off  5A @ 30 VDC, or 5 A @ 250 VAC resistive load			
	User adjustable			
Hysteresis	Max 400 pulses/min.			
Facility and so to t	Max 400 putses/min.			
Environmental	40.00 . 50.00	1/05: 150.05		
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	NEMA 4X/IP65 (front f	ace only on panel mount); field	mount is 100% NEMA 4X/IP65	
Shipping Weight				
	0.6 kg	1.32 lb		
Standards and Approvals				
	CE, FCC, UL, CUL	E, FCC, UL, CUL		
RoHS compliant, China RoHS				
		SO 9001 for Quality and ISO 140 Ipational Health and Safety	01 for Environmental Management and	

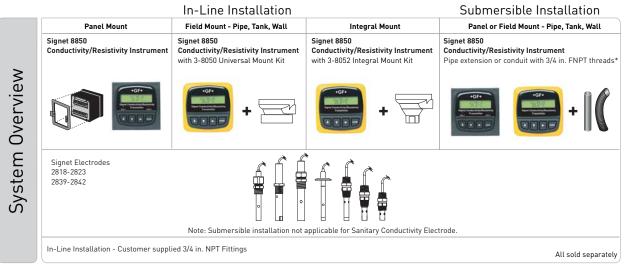
### **Dimensions**

#### 3-8850-XP Panel Mount



#### Field Version with Universal Mounting Kit



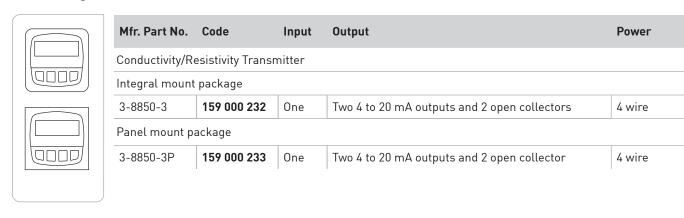


#### \*Refer to the Signet Submersion brochure located in the K-Factors Fittings and More Kit (3-0000-709) for installation suggestions and options.

#### **Ordering Notes**

- 1) Instruments can be mounted directly to a sensor by choosing the following:
  - Order integral adapter kit 3-8052 (sold separately) to connect the sensor to an instrument.
- 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
- 4) Order RC filter kits to protect relays from voltage spikes.

# **Ordering Information**



# **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	¾ in. integral mounting kit	
3-8052-1	159 000 755	¾ in. NPT mount junction box	
3-0000.596	159 000 641	Heavy duty wall mount bracket (panel mount only)	
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)	
Other			
3-8050.396	159 000 617	RC filter kit (for relay use), 2 per kit	