Signet 8350 Temperature Transmitters

Check out the 9900 Transmitter for your single channel needs

Member of the ProcessPro® Family of Transmitters

Panel Mount

Pipe, Wall, Tank and Integral Mount

The Signet 8350 Temperature Transmitter offers local or remote display with current and relay outputs. This model offers exceptional repeatability and accuracy over a wide operating temperature range. Configurations include open collector outputs or mechanical relays with status indicators for process control or alarming.

The unit also has the ability to accept other temperature sensors which have 4 to 20 mA output via the Signet 8058 Signal Converter. The chemical resistant NEMA 4X/IP65 front face is found on both the highly visible field mount or black panel mount instruments with a self-healing window and a standard 1/4 DIN cutout. Dual input version allows difference calculation (ΔT) and offers cost savings with independent dual outputs. All models offer an output simulation function for complete system testing.

Features

- **Digital (S^3L) input for stable & reliable reading**
- **Available with dual input**
- **Field scaleable 4 to 20 mA output**
- **Displays temperature and mA output**
- **Temperature display in degrees Celsius (°C) or Fahrenheit (°F)**
- **Choice of relay or open collector output**
- **NEMA 4X/IP65**

LISTED
MEASURING EQUIPMENT
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Applications

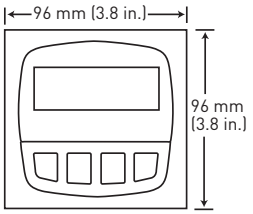
- **Process Temperature Monitoring**
- **Plating Bath Temperature Control**
- **Heat Exchange Monitor**
- **R.O. or D.I. Monitoring**
- **Hot/Cold Mixing System Monitoring**
- **Data Acquisition**
- **Cooling Loops**
- **Effluent Monitoring**
- **HVAC**
- **Chemical Processing**

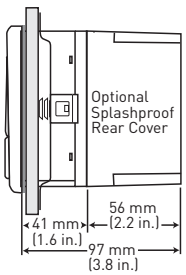
Specifications

General		
Compatibility	Signet 2350 Temperature Sensor versions w/digital output or third-party sensors with 4 to 20 mA output (via Model 8058)	
Accuracy (based on 2350)	±0.5 °C	±0.9 °F
Display	Alphanumeric, 2 x 16 dot matrix LCD	
Update Rate	1 second	
Contrast	User selected, 5 levels	
Materials		
Enclosure	PBT	
Keypad	Sealed 4-key silicone rubber	
Panel and Case Gasket	Neoprene	
Window	Polyurethane coated polycarbonate	
Electrical		
Power	12 to 24 VDC ±10% regulated	
	31 mA max.	
Current Output	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	
Relay Outputs	High, Low, Pulse, Off	
Mechanical SPDT contacts		
Maximum Voltage Rating	5 A @ 30 VDC, 5 A @ 250 VAC resistive load	
Hysteresis	User adjustable	
Open-Collector Output	High, Low, Pulse, Off	
	Optically isolated, 50 mA max, sink, 30 VDC max. with pull-up resistor	
Hysteresis	User adjustable	
	Maximum 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	NEMA 4X/IP65 (front face only on panel mount); field mount is 100% NEMA 4X/IP65	
Shipping Weight		
	0.325 kg	0.8 lb
Standards and Approvals		
	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	

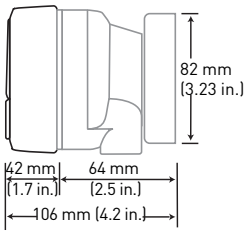
Dimensions

3-8350-XP Panel Mount



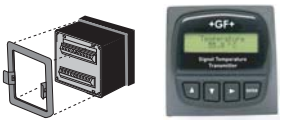


Field Version with Universal Mount



System Overview

Panel Mount	Field Mount - Pipe, Tank, Wall	4 to 20 mA input	Integral Mount
Signet 8350 Temperature Transmitter	**Signet 8350 Temperature Transmitter** with 3-8050 Universal Mount Kit	Customer Supplied Chart Recorder Programmable Logic Controller	**Signet 8350 Temperature Transmitter** with 3-8052 Integral Mount Kit



Signet Sensor 2350

All sold separately

In-Line Installation - Customer supplied fittings

Submersible Installation - Customer supplied pipe extension or conduit with 3/4 in. FNPT threads*

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

8058 signal converter & 8059 external relay module also compatible

Ordering Notes

1) Field mount instruments can be mounted with a sensor in an integral configuration by choosing the following:
   - Order integral adapter kit PN 3-8052 (sold separately) to connect the transmitter directly onto the sensor.
2) An optional splashproof rear cover can be ordered separately if needed.
3) Use the universal mounting kit with the field mount transmitter to mount to a pipe, tank or wall.
4) To mount panel version on a wall, use heavy duty wall mount bracket.
5) Order RC filter kits to protect relays from voltage spikes.
6) Panel cutout should be 92 mm X 92 mm (3.62 in X 3.62 in.).

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

Ordering Information

Mfr. Part No.	Code	Input	Output	Power
Temperature Transmitter				
Field mount or pipe, wall, tank, or integral mounting				
3-8350-3	**159 000 196**	Two	Two 4 to 20 mA outputs and two open collectors	4 wire
Panel mount with mounting bracket and panel gasket				
3-8350-3P	**159 000 197**	Two	Two 4 to 20 mA outputs and two open collectors	4 wire

Accessories and Replacement Parts

Mfr. Part No.	Code	Description
Mounting		
3-8050	**159 000 184**	Universal mounting kit
3-8052	**159 000 188**	¾ in. Integral mounting kit
3-8052-1	**159 000 755**	¾ in. NPT mount junction box with liquid tight connector and cap with terminal block
3-8050.395	**159 000 186**	Splashproof rear cover (panel mount only)
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)
3-9900.396	**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
3-8058-1S	**special order**	4 to 20 mA to digital signal converter, single input, loop powered
3-8058-2S	**special order**	4 to 20 mA to digital signal converter, dual input, loop powered

3-8350.099 Rev D (4/13)
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