

+GF+ SIGNET 8350 ProcessPro™ Temperature Transmitter



Features

- Field Rangeable
- Temperature and mA loop indication
- Deg. C or Deg. F
- Output Simulate function
- 2 sensor input option with difference calc.
- Relay option with status indicators
- 2 x 16 character dot matrix LCD
- Chemical resistant enclosure and self-healing window

Application



- Plating Bath Temperature Control
- Heat Exchange Monitor
- R.O. system monitor
- DI system monitor
- Hot/Cold Mixing system monitor
- Data Acquisition
- Cooling loops
- Effluent monitoring
- HVAC
- Chemical Processing

Description

The +GF+ SIGNET 8350 Temperature Transmitter converts the signal from the +GF+ SIGNET 2350 temperature sensor into a 4 to 20mA signal. Offers exceptional repeatability and accuracy over a wide operating temperature range. Configurations include open collector outputs or relays for process control or

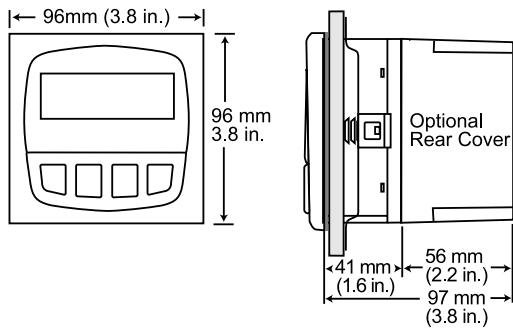
alarming. Chemical resistant NEMA 4X packaging options include highly visible field mount or black panel mount with standard 1/4 DIN cutout. Dual input version offers cost savings with independent dual outputs capable of difference calculation and output.

Technical Features

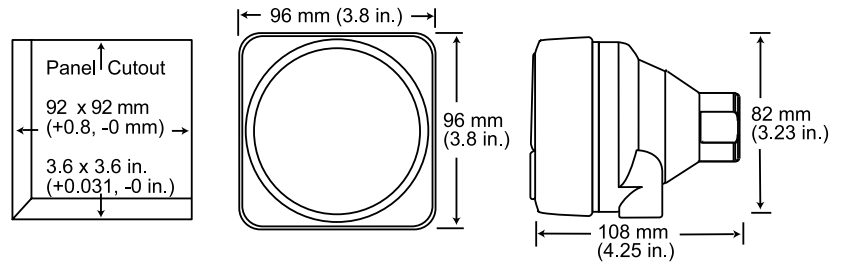
Mounting Version	Part No.	Wire Power	Sensor Input	4 to 20 mA Output	Open Collector/ Relay
Field 	3-8350-1	2	1	1	1 O.C. Hi, Lo, Pulse or Off
	3-8350-2	4	1	1	2 Relays Hi, Lo, Pulse or Off
	3-8350-3	4	2	2 Sensor 1, Sensor 2 or delta T	2 O.C.'s Hi, Lo, Pulse or Off
Panel 	3-8350-1P	2	1	1	1 O.C. Hi, Lo, Pulse or Off
	3-8350-2P	4	1	1	2 Relays Hi, Lo, Pulse or Off
	3-8350-3P	4	2	2 Sensor 1, Sensor 2 or delta T	2 O.C.'s Hi, Lo, Pulse or Off

Dimensions

Panel Mount



Integral/Universal Mount

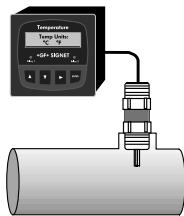


Installation

The transmitter is available in a panel mount or a field version. Select either the universal mount kit (3-8050) to mount the transmitter on a surface near the sensor or select the integral mount kit (3-8052) to mount the transmitter onto the sensor.

1. Panel Mount

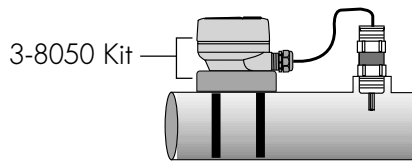
3-8350-XP



All panel mount transmitters (3-8350-XP) include everything for panel installation. Panel mount transmitters fit into a standard 1/4 DIN panel cutout.

2. Universal Mount

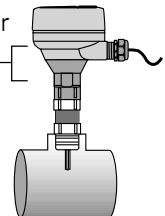
3-8350-X Transmitter



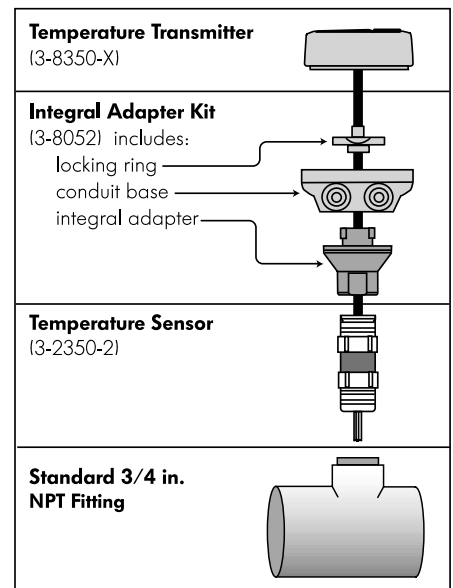
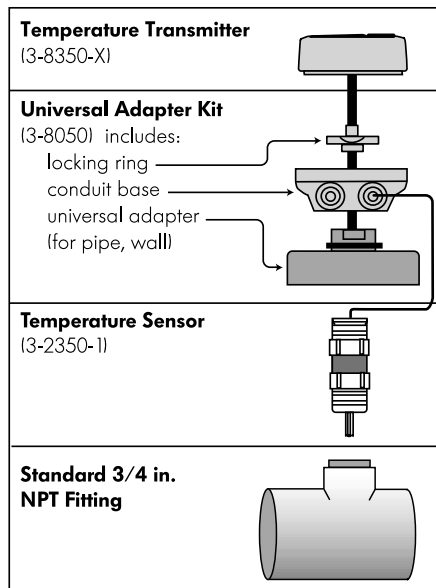
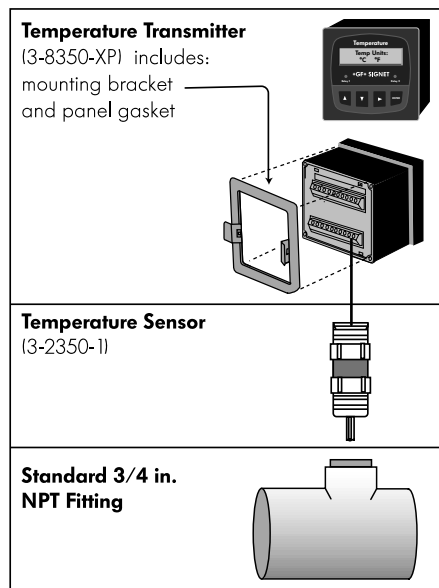
The Universal Mount Kit (3-8050) includes a conduit base, locking ring, and universal adapter for mounting the transmitter on a pipe, wall, or other stationary surface.

3. Integral Mount

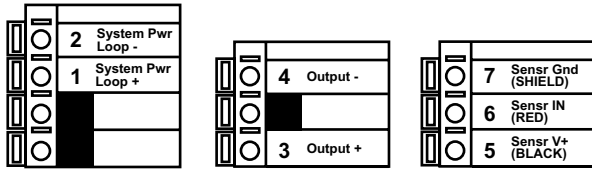
3-8350-X Transmitter
3-8052 Kit



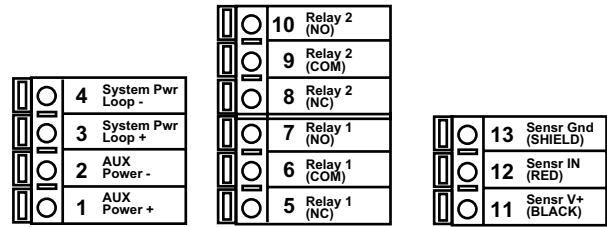
The Integral Mount Kit (3-8052) includes a conduit base, locking ring, and integral adapter for mounting the transmitter and sensor directly onto a pipe.



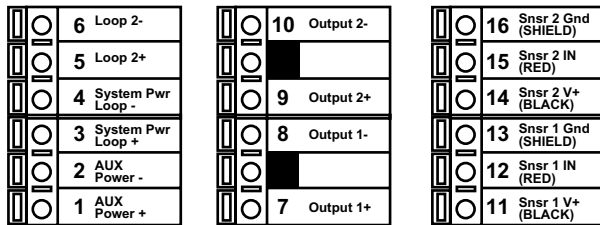
Rear Terminal View



3. terminal 8350-1



3. terminal 8350-2



3. terminal 8350-3

Technical Data

General

Compatibility: +GF+ SIGNET 3-2350-1
or -2 Temperature Sensors

Accuracy: $\pm 0.5^{\circ}\text{C}$

Enclosure:

- Rating: NEMA 4X/IP65 front
- Case: PBT
- Panel case gasket: Neoprene
- Window: Polyurethane coated polycarbonate
- Keypad: Sealed 4-key silicone rubber
- Weight: Approx. 325g (12 oz.)

Display:

- Alphanumeric 2 x 16 LCD
- Update rate: 1 second
- Contrast: User selected, 5 levels

Environmental

Operating temperature:
-10 to 70°C (14 to 158°F)

Storage temperature:
-15 to 80°C (5 to 176°F)

Relative humidity:
0 to 95%, non-condensing

Standards and Approvals

- CSA, CE, UL listed
- Manufactured under ISO 9001

Electrical

Power:

- 12 to 24 VDC $\pm 10\%$ regulated
- (-1) 21 mA max.: (-2) 200 mA max.:
- (-3) 31mA max.

Sensor input:

- Range: -10 to 100°C

Current output:

- 4 to 20 mA, isolated, 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 output:

- Mechanical SPDT contacts: Hi, Lo, Pulse, Off
- Maximum voltage rating: 5 A @ 30 VDC, 5 A @ 250 VAC resistive load
- Hysteresis: User adjustable
- Max 400 pulses/min.
- Open-collector output: Hi, Lo, Pulse, Off
- Open-collector, optically isolated, 50 mA max, sink, 30 VDC max. pull-up voltage.
- Max 400 pulses/min.

Ordering Information

Mfr. Part No.	Code	Description
3-8350-1	159 000 192	Temp transmitter, Field mount
3-8350-1P	159 000 193	Temp transmitter, Panel mount
3-8350-2	159 000 194	Temp transmitter, Field mount with relays
3-8350-2P	159 000 195	Temp transmitter, Panel mount with relays
3-8350-3	159 000 196	Temp transmitter, Field mount with dual input/output
3-8350-3P	159 000 197	Temp transmitter, Panel mount with dual input/output

Accessories

Mfr. Part No	Code	Description
3-8050	159 000 184	Universal mounting kit
3-8050.395	159 000 186	Transmitter NEMA 4X cover
3-8052	159 000 188	3/4" Integral mounting kit
3-8050.396	159 000 617	RC Filter kit (for relay use)
3-0000.596	159 000 641	Heavy duty wall mount bracket

Engineering Specifications

- The transmitter shall be CSA, UL and CE listed.
- The transmitter shall be manufactured under ISO 9001 certified processes.
- The transmitter shall be field or panel mountable.
- The temperature shall be displayed in °C or °F.
- The device shall meet NEMA 4X and IP65 standards.
- The operating voltage shall be 12 to 24 VDC.
- The transmitter shall have an isolated 4 to 20 mA output with an open collector output, 5 to 30 VDC or a 4 to 20 mA output with 2 relays or a 4 to 20 mA output with dual open collector with delta capability.
- The transmitter shall have hold and simulate capability.
- The transmitter shall be +GF+ SIGNET, Model 8350 Temperature Transmitter.