8250 ProcessPro® Level Transmitters





Pipe, Wall, Tank and Integral Mount



Available with Single or Dual Sensor Input

Description

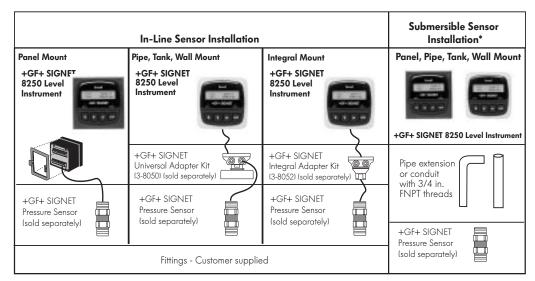
+GF+ SIGNET 8250 Level Transmitters are compatible with the +GF+ SIGNET 2450 Pressure Sensor. The instrument is available in field and panel mount configurations, single or dual-channel input and equipped with one 4 to 20mA output, fully scaleable and reversible for each input channel. The unit also features two relays, plus the ability to support two additional externally mounted relays (for a total of four). Relay operation is selectable for High, Low, Window or Off, and includes fully

adjustable hysteresis and trigger time delay. The unit also has the ability to accept other level sensors with 4 to 20mA output via the +GF+ SIGNET 8058 Signal Converter. Automatic level-to-volume conversion allows display and control of tank level and/or volume in units such as gallons, kilograms, feet or meters. Simply enter the dimensions of your tank or vessel, and the instrument will calculate volume from the level measurement.





System Overview



*For submersible pipe, tank or wall mount installations, user must use the Universal Adapter Kit (3-8050)

Features

- Level units for: ft., in., m, cm, %
- Volume units for: gal., in³, lbs., l, m³, kg, %
- Advanced relay control supports up to 4 relays
- Output simulation
- Manual (up to 10 pts.) and automatic levelto-volume conversion
- Display level, volume or both
- Specific gravity entry for use with pressure sensors and mass unit conversion
- User-selectable averaging for display and output
- Accepts other level sensors with 4 to 20mA output

Application

- Continuous level and/ or volume monitoring
- Local or remote display
- Fill start/stop control
- Pump protection
- Inventory management
- Storage tank monitorina
- Pump station control
- Waste sumps
- Clarifiers
- Plating lines
- Neutralization tanks
- Overflow protection
- Leak detection

Compatible Sensors

The 8250 ProcessPro® Level Transmitter is compatible with the following +GF+ SIGNET sensor:

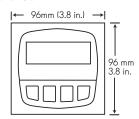
2450

See individual catalog pages for more information.

www.gfsignet.com

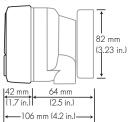
Dimensions

3-8250-XP





Field version with universal mount



Model 8250 Ordering Notes:

- Field mount instruments can be mounted with a sensor in an integral configuration by choosing the following:
- Order integral adapter kit 3-8052 (sold separately) to connect the instrument directly onto the sensor.
- See page xx for more info.
- An optional splashproof rear cover can be ordered separately if needed.
- Use the universal mounting kit with the field mount instrument to mount to a pipe, tank or wall.
- 4) Two additional relays can be used with this product. See part numbers 3-8059-2 or 3-8059-2AC (page xx).
- 5) To mount the panel version on a wall, use heavy duty wall mount bracket.
- 6) Order RC filter kit to protect relays from voltage spikes.

For More Information: For wiring information see page xx. For installation tips and information see page xx. See page xx for more information on accessories & replacement parts.

Specifications

General

Compatible Sensors:

+GF+ SIGNET pressure sensor versions with digital (S³L) output or other sensors with 4 to 20mA output (via Model 8058)

Display:

Alphanumeric 2 x 16 LCD Sealed 4-button keypad Display update rate: 1 second Contrast: User selected, 5 levels

Materials

Case: Polybutylene (PBT)
Panel case gasket: Neoprene

Window:

Polyurethane-coated polycarbonate

Keypad: Silicone rubber

Electrical

Input Power:

12 to 24VDC ± 10% regulated, 250mA max. current

Sensor power:

5VDC ± 1% @ 25°C, regulated (provided by 8250)

Current output:

4 to 20mA, isolated, fully adjust able and reversible

Max. loop impedance:

- 50Ω max. @ 12V
- 325Ω max. @ 18V
- 600Ω max. @ 24V Update rate: 300 ms

Output accuracy: \pm 0.03mA

Electrical (continued)

Relay outputs:

2 sets mechanical SPDT contacts standard with all units

Software supports 2 additional relays via optional external relay module (3-8059) Maximum voltage rating:

• 5A @ 30VDC

• 5A @ 250VAC, resistive load

Programmable for High or Low setpoint or for Window range, with adjustable hysteresis

Time delay:

programmable from 0 to 6400sec

Environmental

Enclosure rating: NEMA 4X/IP65 front

Operating temp.:

-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 Maximum altitude: 2,000m (6,562ft.)

Shipping Weight: 0.325 kg (0.8 lbs)

Standards and Approvals

CE, UL listed

Immunity: EN50082-2
 Emissions: EN55011
 Safety: EN61010

 Manufactured under ISO 9001:2000 for Quality and ISO 14001:1996 for Environmental Management

Ordering Information

Instrument Part Number								
3-82	50	Level Transmitter						
		Inp	Input(s), Outputs, and Power - Choose one					
		2 One input with 4 to 20 mA output and two relays; uses 4 wire power						
	Two inputs with Two 4 to 20 mA outputs and two relays; uses 4 wire power							
			Field or panel mount - Choose one					
			- Field mount for pipe, wall, tank, or integral mounting					
			P Panel mount with mounting bracket and panel gasket					
		\downarrow	♦					
3-82	50	-2	P Example Part Number					

Mfr. Part No.	Code	Mfr. Part No.	Code
3-8250-2	159 000 766	3-8250-3	159 000 768
3-8250-2P	159 000 767	3-8250-3P	159 000 769

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
3-8052	159 000 188	3/4" Integral mounting kit
3-0000.596	159 000 641	Heavy duty wall mount bracket (for panel mount only)
3-5000.598	198 840 225	Surface mount bracket
3-8050.392	159 000 640	Model 200 retrofit adapter
Liquid Tight Conn	ectors	'
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 piece)
3-9000.392-2	159 000 841	Liquid tight connector kit, PG13.5 (1 piece)
Other		
3-8050.396	159 000 617	RC Filter Kit (for relay use), 2 per kit
3-8058-1S	xxx xxx xxx	4 to 20mA to digital signal converter, single input, loop powered
3-8058-2S	xxx xxx xxx	4 to 20mA to digital signal converter, dual input, loop powered
3-8059-2	159 000 770	External relay module, 2 relays; requires 12 to 24VDC
3-8059-2AC	159 000 771	External relay module, 2 relays; w/power supply, 100 to 240VAC

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