

8150 Battery Powered Flow Totalizer

Panel Mount



Pipe, Wall, and Tank Mount



Integral Mount

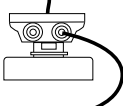
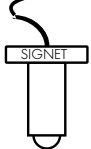


Description

The +GF+ SIGNET 8150 Battery Operated Flow Totalizer is compatible with the +GF+ SIGNET 515, 525 and 2517 flow sensors, and will provide years of dependable operation. The large digital display indicates flow rate and totaled flow volume simultaneously. One of the three totalizers is resettable from the front panel or a remote location, while the second resettable totalizer can only be reset by entering a user-selectable security code. Meanwhile, the third is a permanent non-resettable totalizer. Our intuitive software design and four-button keypad provide for simple operation while setting screen displays and

programming the system. Calibration can be easily performed by entering the Auto-Cal feature and entering a value to match an external reference. Screen displays can be modified to suit the user's needs; along with the flow rate, any of the three totalizers can be selected as the displayed totalizer. Customers can quickly scroll through the totalizers simply by pressing any key on the keypad. A display averaging feature is included for applications where the flow in the pipe fluctuates. For applications where flow stops and starts due to production needs, a no-flow indicator will display the hours of non-flow.

System Overview

Panel Mount +GF+ SIGNET 8150 Flow Totalizer Includes mounting bracket and panel gasket 	Pipe, Tank, Wall Mount +GF+ SIGNET 8150 Flow Totalizer 	Integral Mount +GF+ SIGNET 8150 Flow Totalizer -includes adapter and sensor 
+GF+ SIGNET Flow Sensor (sold separately) 	+GF+ SIGNET Universal Adapter Kit (3-8050) (sold separately) 	
	+GF+ SIGNET Flow Sensor (sold separately) 	
+GF+ SIGNET Fittings (sold separately) 		

Features

- Three totalizers
- Long-lasting lithium batteries
- Mounting versatility
- No-flow indicator
- Large digital display with averaging
- Simple push-button operation
- User selectable access code prevents unwanted changes
- Auto-calibration

Applications

- Wastewater Flow Accumulation
- Water Treatment Systems
- Remote or Mobile Treatment/Distribution Systems
- Irrigation Systems
- Filtration Systems
- Pools & Spas
- Groundwater Remediation
- RO Concentrate
- Process Flow Monitoring
- UPW Distribution
- Demineralizer Regeneration
- Process Cooling Water
- Neutralization Systems



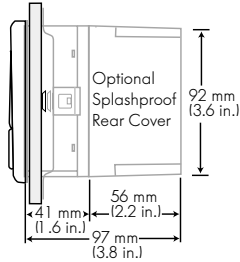
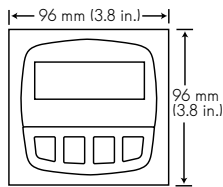
Compatible Sensors

The 8150 Battery Powered Flow Totalizer is compatible with the following +GF+ SIGNET Flow Sensors:

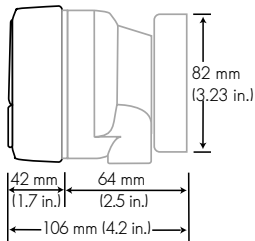
515 525 2517

Dimensions

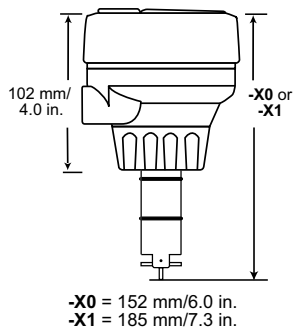
3-8150-1P



3-8150-1 with universal mount



Model 515 Integral Mount Sensors



Specifications

General

Compatibility:

+GF+ SIGNET 515, 525 and 2517 flow sensors

Input Freq. Range: 0 to 400Hz

Accuracy: $\pm 0.5\%$ of reading

Display: LCD type

4-digit upper line - flow rate

8-digit lower line - volume totalizer count, either resettable or permanent

Averaging: 0 to 120 secs.

Contrast: Automatic

Low battery indication:

Battery symbol appears on LCD display

8-digit resettable totalizers:

Stored until user resets; continues to be stored even after batteries are removed

8-digit permanent:

Kept permanently, even when batteries are removed

Materials

Enclosure: PBT resin

Keypad material:

Sealed 4-key silicon rubber

Panel Case gasket: Neoprene

Window:

Polyurethane coated polycarbonate

Electrical

Battery:

Two 3.6V Lithium thionyl chloride, AA-size

Battery life:

4 years nominal $\leq 50^{\circ}\text{C}$ (122°F)

Environmental

Enclosure rating: NEMA 4X/IP65 front

Operating Temperature:

-10°C to 65°C (14°F to 149°F)

Storage Temperature:

-40°C to 100°C (-40°F to 212°F)

Relative Humidity

0 to 95% Non-condensing

Shipping Weight: 0.5 kg (1.1 lbs.)

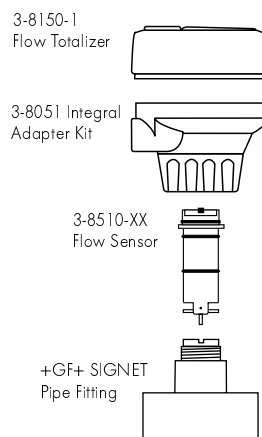
Standards and Approvals

- CE
- CUL, UL pending
- Manufactured under ISO 9001:2000 for Quality and ISO 14001:1996 for Environmental Management

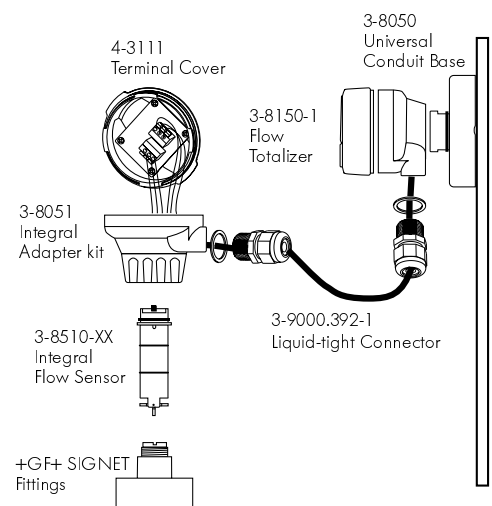
Installation

Below are examples of common installations for the 8150 Flow Totalizer and the 8510 Integral Mount Flow Sensor. For more details, see the instruction manual.

- Integral Installation with Field Mount Totalizer

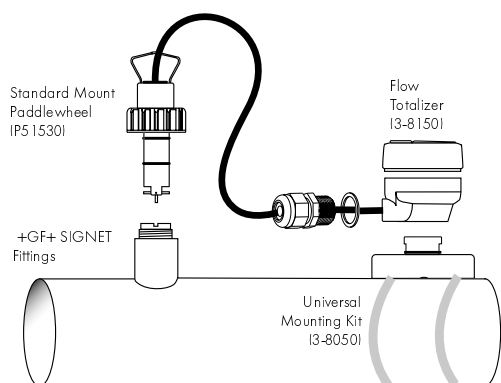


- Remote Wall Mount Installation

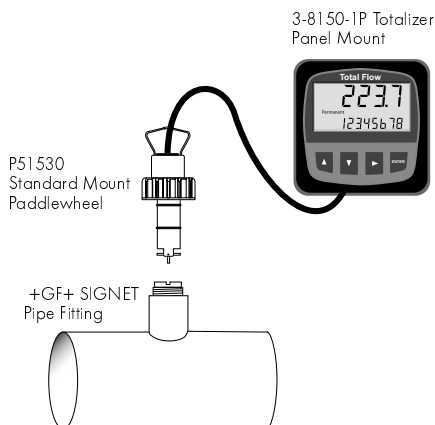


Installation (continued)

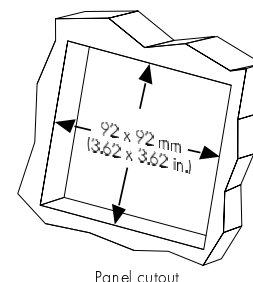
- Remote Pipe Mount



- Remote installation with Panel Mount

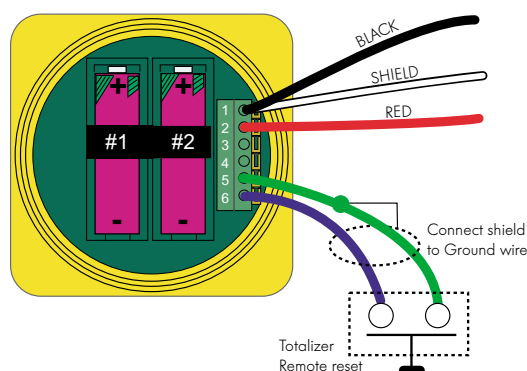


Panel Cut-Out



- The 8150 Panel-mount Totalizer is a standard 1/4 DIN package. Use a 92 x 92mm punch tool to make the panel cutout.
- Minimum spacing of 25mm (1 in.) between panel units is recommended.

Wiring



Ordering Information

Instrument Part Number		
3-8150	Battery Operated Flow Totalizer	
	Field, Panel, or Integral Sensor mount - choose one	
	-1	Field mount for pipe, tank, and wall mounting
	-1P	Panel mount; includes mounting bracket and panel gasket
	-P0*	3-8150-1 integrally mounted on Model 515 Paddlewheel (Part No. 3-8510-P0) for 0.5 to 4 in. pipes, with a polypropylene body, Black PVDF rotor, and Titanium pin
	-P1*	3-8150-1 integrally mounted on Model 515 Paddlewheel (Part No. 3-8510-P1) for 5 to 8 in. pipes, with a polypropylene body, Black PVDF rotor, and Titanium pin
	-T0*	3-8150-1 integrally mounted on Model 515 Paddlewheel (Part No. 3-8510-T0) for 0.5 to 4 in. pipes, with a natural PVDF body, rotor, and pin
	-V0*	3-8150-1 integrally mounted on Model 515 Paddlewheel (Part No. 3-8510-V0) for 0.5 to 4 in. pipes, with a natural PVDF body, rotor, and Hastelloy pin
3-8150	- 1	Example Part Number

Model 8150

Ordering Notes:

- 1) For panel version, cutout must be 92 x 92 mm (3.62 x 3.62 in.)
- 2) To mount the panel version on a wall, use the heavy duty wall mount bracket.
- 3) Use the Universal mounting kit with the Field mount instrument to mount to a pipe, tank or wall.
- 4) An optional splash proof rear cover can be ordered separately if needed.

Mfr. Part No.	Code	Mfr. Part No.	Code
3-8150-1	159 000 929	3-8150-P1	159 000 932
3-8150-1P	159 000 930	3-8150-T0	159 001 011
3-8150-P0	159 000 931	3-8150-V0	159 001 012

Accessories and Replacement Parts

Mfr. Part No.	Code	Description
Mounting		
3-8050	159 000 184	Universal 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
3-8050.395	159 000 186	Splashproof rear cover for panel mount totalizer
Liquid Tight Connectors		
3-9000.392	159 000 368	Liquid tight connector kit (includes 3 connectors)
3-9000.392-1	159 000 839	Liquid tight connector, NPT (1 connector)
3-9000.392-2	159 000 841	Liquid tight connector, PG 13.5 (1 connector)
Other		
3-8050.392	159 000 640	Model 200 retrofit adaptor
7400-0011	159 000 022	Lithium battery, 3.6V, Size AA
5523-0222	159 000 392	Cable, two conductor shielded, 22 AWG (per ft.)
Replacement parts for integral mount units - see Model 515 catalog pages for more information		
3-8051	159 000 187	Flow integral mounting kit, NPT (replacement)
3-8510-P0	198 864 504	Sensor for 0.5 to 4 in. pipes, Polypropylene body
3-8510-P1	198 864 505	Sensor for 5 to 8 in. pipes, Polypropylene body
3-8150-T0	159 000 622	Sensor for 0.5 to 4 in. pipes, all natural PVDF
3-8150-V0	198 864 506	Sensor for 0.5 to 4 in. pipes, PVDF body

See Operation Manual:

- For more flow wiring information.
- For flow installation tips.

For more information, contact your local George Fischer Sales Office:

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