

Signet i-Go™ 8058 Signal Converter



Features

- Connects with level, temperature, pressure and multi-parameter Signet instruments and other manufacturers transmitters
- Up to two 4 to 20 mA sensor inputs
- Connects additional measurement parameters to Signet 8900 Multi-Parameter instrument
- Wire or DIN rail mountable

Description

The Signet i-Go™ 8058 Signal Converter accepts any 4 to 20 mA signal and converts it into the Signet digital (S³L) format, the serial data format used by the Signet 8250, 8350, 8450 and 8900 instruments. When used with the 8900 Multi-Parameter Controller, the measurement type and operating range are defined in the 8900 setup menu. When used with level, temperature and pressure transmitters, the 8058 is configured at the factory to the user's specifications.

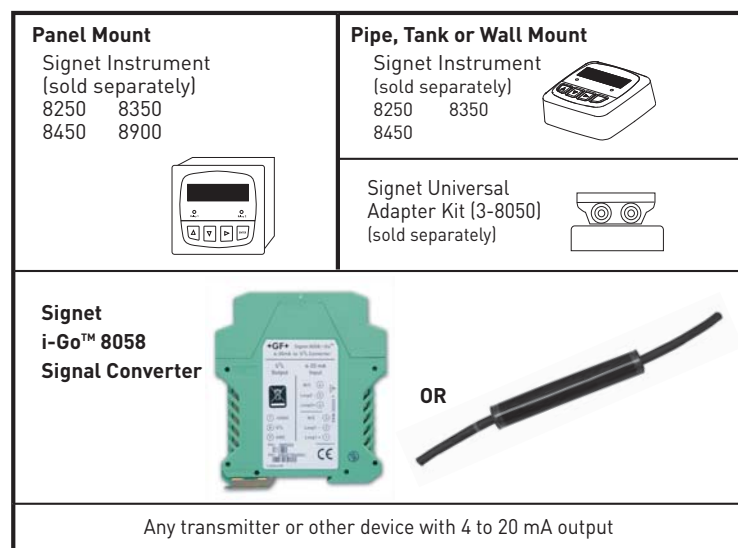
The wire-mount single-channel version is easily mounted anywhere in the interconnecting wiring between the sensor and the instrument.

The DIN rail mounted dual-channel version can convert one or two separate 4 to 20 mA inputs into a digital (S³L) output.

Applications

- Dissolved Oxygen Monitoring and Control in Wastewater
- Chlorine Dioxide for Disinfection
- Specific Ion
- BOD
- TOC
- Alkalinity
- Ozone Monitoring
- Conductivity
- Chlorine Injection Control
- Tank Level Monitoring
- Turbidity and Suspended Solids Monitoring

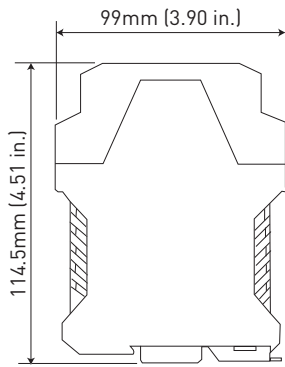
System Overview



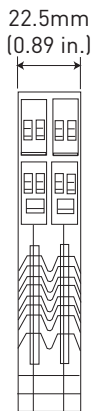
CE

Dimensions

3-8058-2 DIN Rail mount



Front View



Side View

Model 8058

Ordering Notes

- For the -S special option, customer must specify at time of order the actual process value at 4 mA and the actual process value at 20 mA for factory span calibration.
- For the -SC special option, customer must specify the required length of cable in increments of feet or meters.

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

Specifications

General

Input: 4 to 20 mA current loop, passive (external power required)
 Input range: 3.6 to 22.1 mA
 Output: Digital (S³L) output
 3-8058-2: calibrated mA
 Accuracy: ± 32 µA @ 25 °C
 Resolution: < 16 µA
 Update rate: 500mS
 Temp. Drift: ± 1 µA per °C, max.

Electrical

Power Req.: 5 to 6.5 VDC < 3.0 mA
 Max. Voltage: 40 VDC
 Max. Current: 40 mA
 Isolation: Up to 48 VAC/DC
 Voltage Drop: 5 VDC max.
 Reverse polarity protected

Cable:

- 3-8058-1: 400 mm (15 in.) input, 200 mm (8 in.) output
 - 3-8058-2: No cable provided (customer supplied)
- Max. Recommended Cable Extensions:
- Loop in: 300 m (1000 ft)
 - Digital (S³L) out: per Digital (S³L) guidelines

Environmental

Operating Ambient Temperature: -10 °C to 55 °C (14 °F to 131 °F)
 Storage Temperature: -20 °C to 85 °C (-4 °F to 185 °F)
 Relative Humidity:
 • 3-8058-1: 0 to 100%, condensing
 • 3-8058-2: 0 to 90%, non-condensing

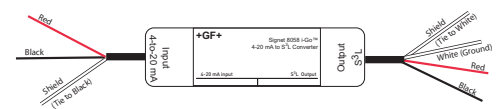
Shipping Weight

- 3-8058-1: 40 g 0.80 lb
- 3-8058-2: 80 g 0.17 lb

Standards and Approvals

- CE

3-8058-1 wire mount



Ordering Information

Signal Converter			
3-8058	4 to 20 mA output converted to a digital (S ³ L) output		
	Options - Choose One		
	-1	Single input wire-mount converter with short cable; for use with the 8900	
	-2	Two input DIN rail mount converter (customer supplied cable) for use with the 8900	
		Special Options-Contact Technical Service for More Ordering Information	
	-S	Converter configured for use with Signet 8250, 8350, or 8450. Customer must specify 4 and 20 mA designations. See ordering notes.	
	-SC	Special cable length for the -1 version	
3-8058	-1	-S	Example Part Number

Mfr. Part No.	Code
3-8058-1	159 000 966
3-8058-2	159 000 967

Accessories and Replacement Parts

Mfr. Part No.	Code	Description
6205-0002	159 000 858	1-Meter Length DIN Rail
6205-0003	159 000 859	End Clip for DIN Rail
5523-0222	159 000 392	Cable (per foot), 2 cond. w/shield, 22 AWG
5523-0322	159 000 761	Sensor cable (per ft), 3 cond. plus shield, 22 AWG

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