

# 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 (S<sup>3</sup>L) 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.

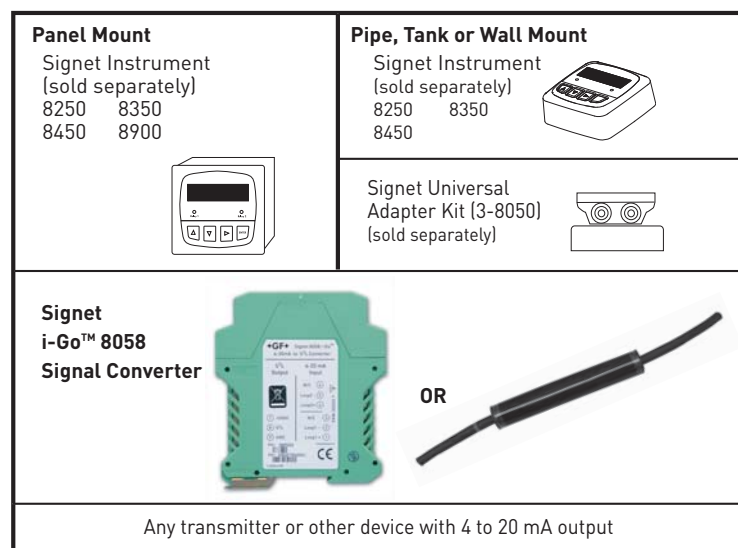
The wire-mount single-channel version is easily mounted anywhere in the interconnecting wiring between the sensor and the instrument.

The DIN rail mounted dual-channel version can convert one or two separate 4 to 20 mA inputs into a digital (S<sup>3</sup>L) 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

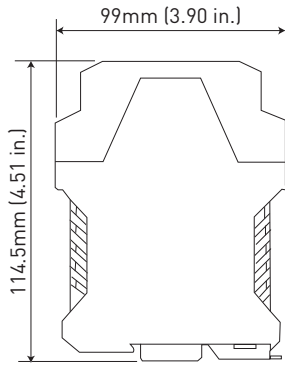
## System Overview



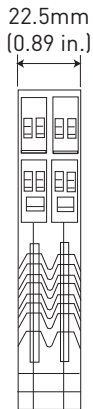
CE

## 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 (S<sup>3</sup>L) 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 (S<sup>3</sup>L) out: per Digital (S<sup>3</sup>L) 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

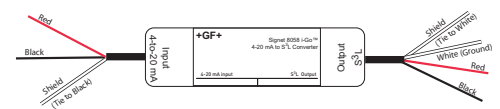
### Shipping Weight

- 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			
<b>3-8058</b>	4 to 20 mA output converted to a digital (S <sup>3</sup> 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	
<b>3-8058</b>	<b>-1</b>	<b>-S</b>	<b>Example Part Number</b>

Mfr. Part No.	Code
3-8058-1	<b>159 000 966</b>
3-8058-2	<b>159 000 967</b>

## Accessories and Replacement Parts

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

### 3-8058.099 Rev A (01/10)

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