

# Signet i-Go™ 8058 Signal Converter



## Description

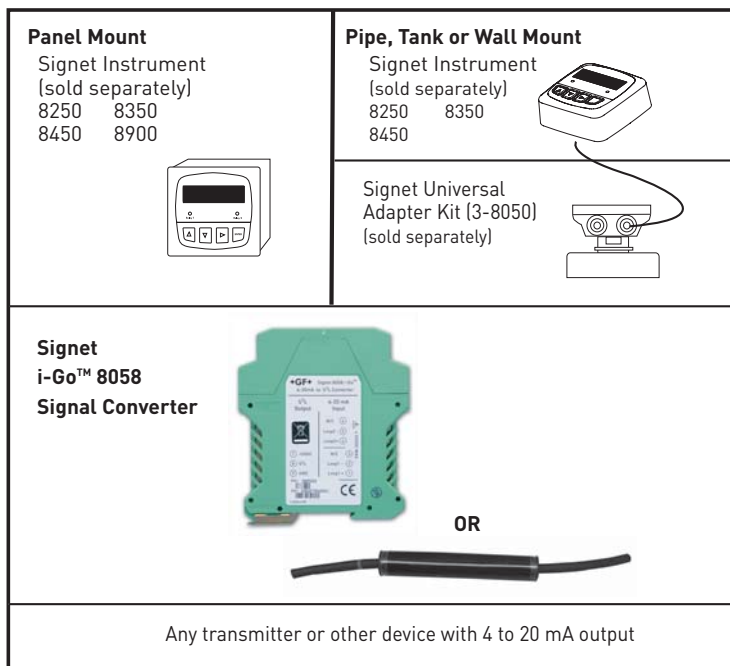
The Signet i-Go™ 8058 Signal Converter accepts any 4 to 20 mA signal and converts it into the Signet digital (S<sup>3</sup>L) format, the serial data format used by the Signet 8250, 8350, 8450 and 8900 instruments. When used with the 8900 Multi-Parameter Controller, the measurement type and operating range are defined in the 8900 setup menu.

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 20mA inputs into a digital (S<sup>3</sup>L) output.

When used with level, temperature and pressure transmitters, the 8058 is configured at the factory to the user's specifications.

## System Overview



## Features

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

## Applications

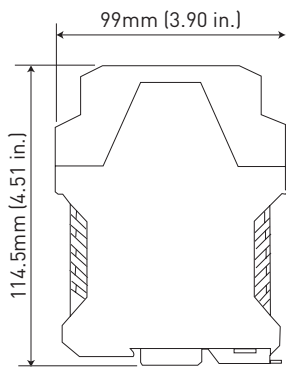
- Dissolved Oxygen Monitoring and Control in Wastewater
- Chlorine Dioxide for Disinfection
- Specific Ion
- BOD
- TOC
- Alkalinity
- Ozone Monitoring
- Toroidal conductivity
- Chlorine Injection Control
- Tank Level Monitoring
- Turbidity and Suspended Solids Monitoring



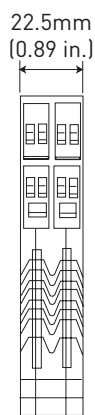


## Dimensions

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 20mA 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 Volts AC/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: 300m (1000 ft.)
  - Digital (S<sup>3</sup>L) out: per Digital (S<sup>3</sup>L) guidelines

### Shipping Weight:

- 3-8058-1: 40g (.80 lbs.)
- 3-8058-2: 80g (.17 lbs.)

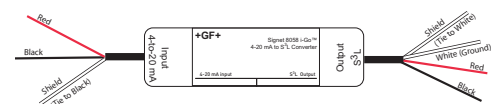
### Environmental

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

### Standards and Approvals

- CE

### 3-8058-2 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, 2 cond. plus shield, 22 AWG, black/red (recommended)
5523-0322	<b>159 000 761</b>	Cable, 3 cond. plus shield, 22 AWG, black/red/white