

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 20mA 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.

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

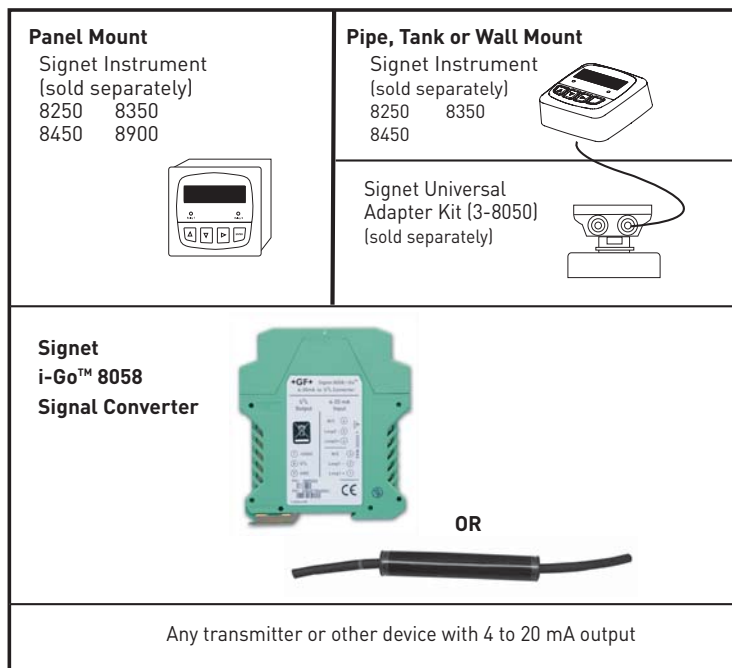
The DIN rail mounted dual-channel version can convert one or two separate 4 to 20mA inputs into a digital (S³L) output.

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

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

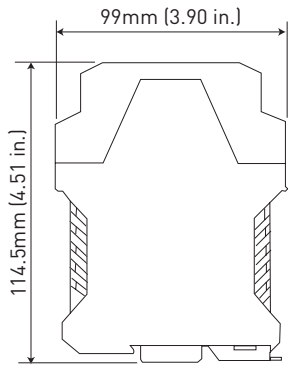
System Overview



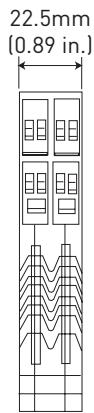


Dimensions

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 (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 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 (S³L) out: per Digital (S³L) guidelines

Shipping Weight:

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

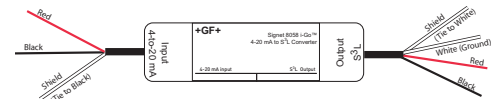
Environmental

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 | | |
|------------------|---|----------------------------|
| 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, 2 cond. plus shield, 22 AWG, black/red (recommended) |
| 5523-0322 | 159 000 761 | Cable, 3 cond. plus shield, 22 AWG, black/red/white |