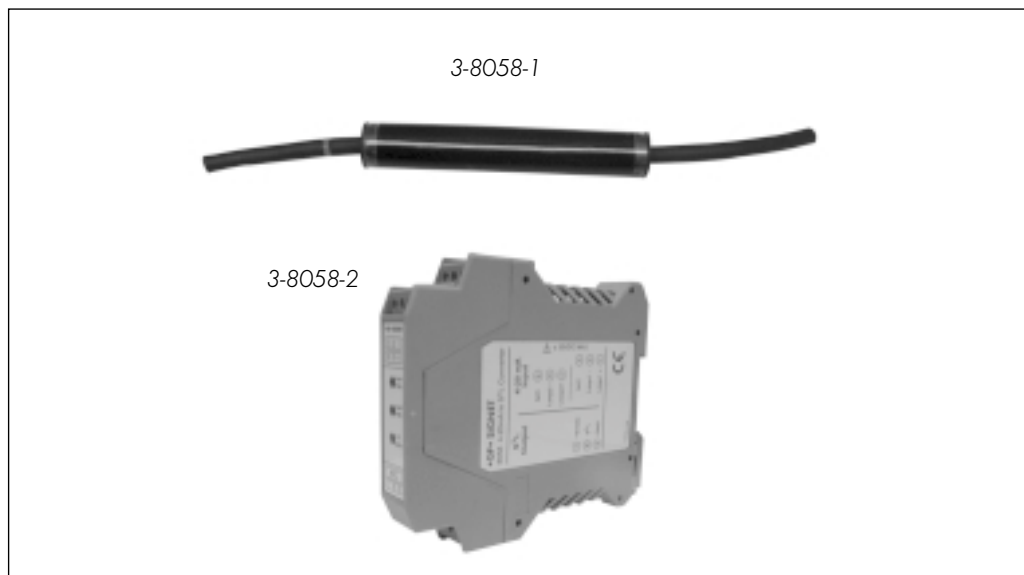


i-Go™ 8058 Signal Converter



Description

The +GF+ SIGNET i-Go™ 8058 Signal Converter accepts any 4 to 20 mA signal and converts it into the +GF+ SIGNET digital (S³L) format, the serial data format used by the +GF+ 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 config-

ured 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 20mA inputs into a digital (S³L) output.

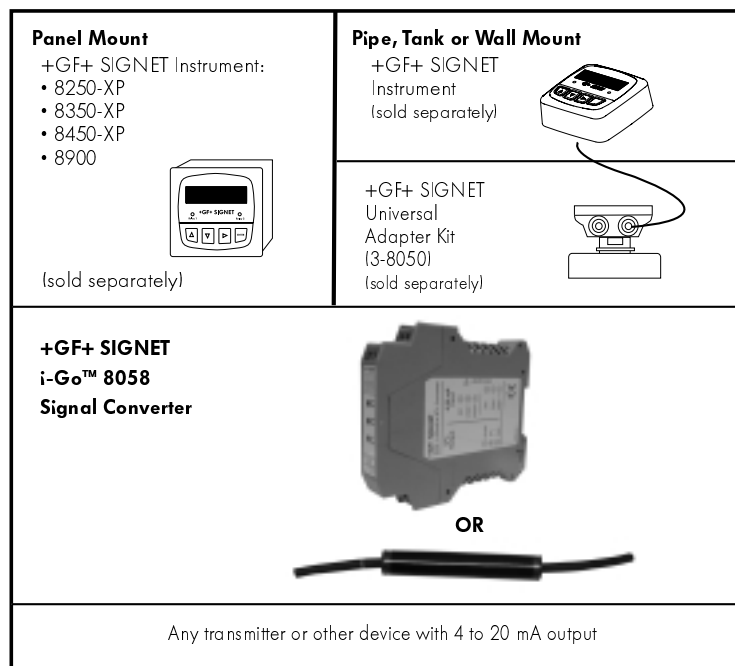
Features

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

Applications

- Dissolved Oxygen Monitoring and Control in Wastewater
- Chlorine Dioxide for Disinfection
- Ozone Monitoring
- Toroidal Conductivity
- Chlorine Injection Control
- Tank Level Monitoring
- Turbidity and Suspended Solids Monitoring

System Overview



CE

Compatible Sensors

The +GF+ SIGNET i-Go™ 8058 Signal Converter is compatible with the following sensors:

All sensors with 4 to 20mA output.

Compatible Instruments

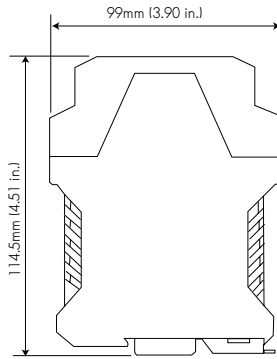
The +GF+ SIGNET i-Go™ 8058 Signal Converter is compatible with the following instruments:

8250 8450
8350 8900

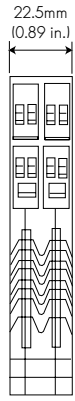
See individual catalog pages for more information.

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 4mA and the actual process value at 2mA for factory span calibration.
- For the -SC special option, customer must specify the required length of cable in increments of feet or meters.

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: $\pm 32 \mu\text{A}$ @ 25°C
 Resolution: $< 16 \mu\text{A}$
 Update rate: 500mS
 Temp. Drift: $\pm 1 \mu\text{A}$ per °C, max.

Electrical

Power req.: 4.5 to 6.5 VDC < 3.0 mA
 Max. voltage: 35 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.)
 • S³L out: per S³L guidelines

Shipping Weight:

- 8058-1: 40g (1.08 lbs.)
- 8058-2: 80g (1.17 lbs.)

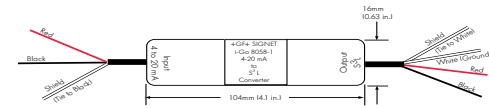
Environmental

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

3-8058-1 wire mount



Other
Products

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 +GF+ SIGNET 8250, 8350, or 8450. Customer must specify 4 and 20 mA designations. See ordering notes.
-SC	Special cable length for the -1 version (cable is customer supplied).
3-8058	-1 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 Clips for DIN Rail
5523-0222	159 000 392	Cable, 2 cond. plus shield, 22 AWG, black/red
5523-0322	159 000 761	Cable, 3 cond. plus shield, 22 AWG, black/red/white