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 (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.

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

System Overview
Panel Mount
Signet Instrument [sold separately]
8250 8350 8450 8900

Pipe, Tank or Wall Mount
Signet Instrument [sold separately]
8250 8350 8450
Signet Universal Adapter Kit (3-8050) [sold separately]

Signet i-Go™ 8058 Signal Converter

Any transmitter or other device with 4 to 20 mA output
**Dimensions**

3-8058-2 DIN Rail mount

*Front View*

99mm [3.90 in.]

*Side View*

22.5mm [0.89 in.]

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**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

**Ordering Information**

**Signal Converter**

<table>
<thead>
<tr>
<th>3-8058</th>
<th>4 to 20 mA output converted to a digital [S3L] output</th>
</tr>
</thead>
<tbody>
<tr>
<td>Options - Choose one</td>
<td></td>
</tr>
<tr>
<td>-1</td>
<td>Single input wire-mount converter with short cable; for use with the 8900</td>
</tr>
<tr>
<td>-2</td>
<td>Two input DIN rail mount converter (customer supplied cable) for use with the 8900</td>
</tr>
<tr>
<td>-S</td>
<td>Converter configured for use with Signet 8250, 8350, or 8450. Customer must specify 4 and 20 mA designations. See ordering notes.</td>
</tr>
<tr>
<td>-SC</td>
<td>Special cable length for the -1 version</td>
</tr>
</tbody>
</table>

**Mfr. Part No.**

| 3-8058-1 | 159 000 966 |
| 3-8058-2 | 159 000 967 |

**Accessories and Replacement Parts**

<table>
<thead>
<tr>
<th>Mfr. Part No.</th>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>6205-0002</td>
<td>159 000 858</td>
<td>1-Meter Length DIN Rail</td>
</tr>
<tr>
<td>6205-0003</td>
<td>159 000 859</td>
<td>End Clip for DIN Rail</td>
</tr>
<tr>
<td>5523-0222</td>
<td>159 000 392</td>
<td>Cable, 2 cond. plus shield, 22 AWG, black/red (recommended)</td>
</tr>
<tr>
<td>5523-0322</td>
<td>159 000 761</td>
<td>Cable, 3 cond. plus shield, 22 AWG, black/red/white</td>
</tr>
</tbody>
</table>

**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

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