

OM-CP-PROCESS101 and OM-CP-PROCESS110

4 to 20 mA Current Data Loggers

Part of the NOMAD® Family



OM-CP-PROCESS110-25MA, data logger shown larger than actual size



OM-CP-PROCESS101, data logger shown larger than actual size

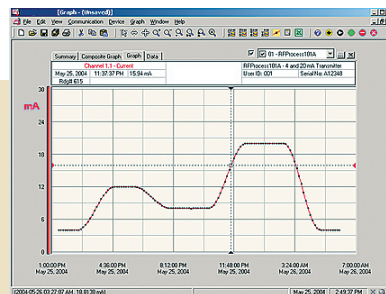
Basic Unit

- ✓ 16-Bit Resolution
- ✓ Programmable Scale Factor, Engineering Units and Offset Value
- ✓ Memory Wrap Around
- ✓ Miniature Size
- ✓ User Calibration Through Software
- ✓ Real Time Operation

The OM-CP-PROCESS101 and OM-CP-PROCESS110 are low cost, high resolution, miniature battery powered, stand-alone data loggers used for automatically recording current. In addition, these data loggers allow the user to store user defined units such as pressure into the device as well as scale factors and offset values. This enables the user to easily linearize and scale any process meter that provides an analog output to engineering units automatically. This all-in-one compact, portable, easy-to-use device will measure and record up to 32,768 current measurements.

These data loggers are a major leap forward in both size and performance. Its real time clock ensures that all data is time and date stamped.

The storage medium is non-volatile solid state memory, providing maximum data security even if the battery becomes discharged. Its small size allows it to fit almost anywhere. Data retrieval is simple. Plug it into an empty COM port and our easy to use software does the rest. The software converts your PC into a real time strip chart recorder.



OM-CP-IFC200, Windows software displays data in graphical or tabular format.

| Statistics | |
|--------------------|------------|
| Minimum | 4 mA |
| Maximum | 20.01 mA |
| Average | 10.9327 mA |
| Standard Deviation | 5.40783 mA |

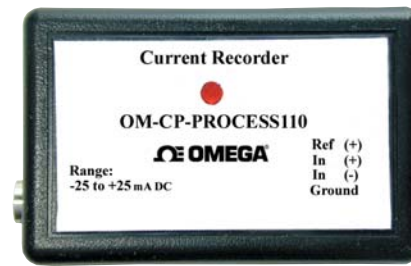
Data can be printed in graphical or tabular format and can be exported to a text or Microsoft Excel file.

Specifications

- Input Connection:** Screw terminal
- ADC Resolution:** 16-bits
- Current Calibration:** Digital calibration is available in software
- Recording Interval:** 1 second to 12 hours selectable in software
- Real Time Recording:** Device may be used with PC to monitor and record data in real time
- Red Visual Indicator:** LED flashes at selected reading rate



OM-CP-PROCESS110-25MA, data logger shown larger than actual size



OM-CP-PROCESS101, data logger shown larger than actual size

*OM-CP-PROCESS101 is CE approved only

Power:

3.6 V lithium battery included

Battery Life:

OM-CP-PROCESS101:

1 year at 1 min reading rate

OM-CP-PROCESS110:

10 years at 15 min reading rate

Time Accuracy: ±1 minute per month at 20°C

Data Format: Date and time stamped, volts, other engineering units programmable through software

Weight:

OM-CP-PROCESS101:

30 g (1 oz)

OM-CP-PROCESS110:

60 g (2 oz)

Computer Interface:

PC serial, RS-232C COM

or USB (interface cable required)

Software: XP SP3/Vista and 7 (32-bit and 64-bit)

Communications:

OM-CP-PROCESS101: 2400 baud

OM-CP-PROCESS110: 57600 baud

Operating Environment:

-40 to 80°C (-40 to 176°F)

0 to 95% RH non-condensing

Dimensions:

OM-CP-PROCESS101:

35 H x 64 W x 15 mm D

(1.4 x 2.5 x 0.6")

OM-CP-PROCESS110:

41 H x 58 W x 20 mm D

(1.6 x 2.3 x 0.8")

| INPUT RANGES | OM-CP-PROCESS101 | OM-CP-PROCESS110-1MA | OM-CP-PROCESS110-25MA | OM-CP-PROCESS110-100MA |
|---------------------|------------------|----------------------|-----------------------|------------------------|
| Nominal Input Range | 0 to 100 mA | ±1 mA | ±25 mA | ±100 mA |
| Measurement Range | -20 to 120 mA | ±1.25 mA | ±30mA | ±120 mA |
| Resolution | 10 µA | 0.05 µA | 1 µA | 5 µA |
| Accuracy | ±0.1% FSR | ±0.5% FSR | ±0.1% FSR | ±0.1% FSR |
| Input Impedance | 10 Ω | 50 Ω | 10 Ω | 2 Ω |
| Overload Protection | ±125 mA | ±20 mA | ±100 mA | ±125 mA |

MOST POPULAR MODELS HIGHLIGHTED!

| To Order (Specify Model Number) | |
|---------------------------------|--|
| Model No. | Description |
| OM-CP-PROCESS101 | Process input data logger, 0 to 100 mA input range (CE approved only) |
| OM-CP-PROCESS101-CERT | Process input data logger, 0 to 100 mA input range with NIST calibration certificate (CE approved only) |
| OM-CP-PROCESS110-1MA | Process input data logger, ±1 mA input range, extended battery life |
| OM-CP-PROCESS110-1MA-CERT | Process input data logger, ±1 mA input range, extended battery life with NIST calibration certificate |
| OM-CP-PROCESS110-25MA | Process input data logger, ±25 mA input range, extended battery life |
| OM-CP-PROCESS110-25MA-CERT | Process input data logger, ±25 mA input range, extended battery life with NIST calibration certificate |
| OM-CP-PROCESS110-100MA | Process input data logger, ±100 mA input range, extended battery life |
| OM-CP-PROCESS110-100MA-CERT | Process input data logger, ±100 mA input range, extended battery life with NIST calibration certificate |
| OM-CP-IFC200 | Windows software and 3.7 m (12') USB interface cable |
| OM-CP-BAT105 | Replacement 3.6 V lithium battery |
| OM-CP-CONNECTOR-2 | Replacement 2 position terminal block connector for the OM-CP-PROCESS101 |
| OM-CP-CONNECTOR-3 | Replacement 3 position terminal block connector for the OM-CP-PROCESS110-1MA, OM-CP-PROCESS110-25MA and OM-CP-PROCESS110-100MA |

Operator's manual, battery, and USB interface cable are included with the **OM-CP-IFC200** Windows software, (software is required to operate the data logger and is sold separately).

Ordering Example: **OM-CP-PROCESS101-CERT** 4 to 20 mA current data logger with NIST calibration certificate and **OM-CP-IFC200** Windows software and USB interface cable



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