

OM-CP-PROCESS101 and OM-CP-PROCESS110

4 to 20 mA Current Data Loggers Part of the NOMAD® Family



OM-CP-PROCESS110-25MA, \$299, data logger shown larger than actual size

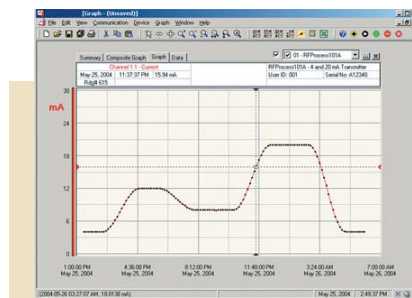


OM-CP-PROCESS101, \$199 data logger shown larger than actual size

\$199
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.



OM-CP-IFC110, \$99, Windows software displays data in graphical or tabular format.

Time	Current	Units	Annotation
Oct 19, 2004 11:22:27 PM	13.31 mA		
600	Oct 19, 2004 11:22:27 PM	13.31 mA	
601	Oct 19, 2004 11:22:27 PM	14 mA	
602	Oct 19, 2004 11:25:27 PM	14.14 mA	
603	Oct 19, 2004 11:25:27 PM	14.28 mA	
604	Oct 19, 2004 11:25:27 PM	14.42 mA	
605	Oct 19, 2004 11:27:27 PM	14.56 mA	
606	Oct 19, 2004 11:27:27 PM	14.71 mA	
607	Oct 19, 2004 11:28:27 PM	14.84 mA	
608	Oct 19, 2004 11:28:27 PM	14.98 mA	
609	Oct 19, 2004 11:30:27 PM	15.12 mA	
610	Oct 19, 2004 11:30:27 PM	15.26 mA	
611	Oct 19, 2004 11:33:27 PM	15.4 mA	
612	Oct 19, 2004 11:33:27 PM	15.54 mA	
613	Oct 19, 2004 11:35:27 PM	15.67 mA	
614	Oct 19, 2004 11:36:27 PM	15.81 mA	
615	Oct 19, 2004 11:37:27 PM	15.94 mA	
616	Oct 19, 2004 11:38:27 PM	16.07 mA	
617	Oct 19, 2004 11:38:27 PM	16.2 mA	
618	Oct 19, 2004 11:40:27 PM	16.34 mA	
619	Oct 19, 2004 11:41:27 PM	16.48 mA	

Statistic	
Minimum	4 mA
Maximum	20.01 mA
Average	10.9327 mA
Standard Deviation	5.40783 mA

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.

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,
\$299, data logger shown
larger than actual size



OM-CP-PROCESS101, \$199 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: Windows

95/98/NT/2000/XP

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.	Price	Description	
OM-CP-PROCESS101	\$199	Process input data logger, 0 to 100 mA input range (CE approved only)	
OM-CP-PROCESS101-CERT	259	Process input data logger, 0 to 100 mA input range with NIST calibration certificate (CE approved only)	
OM-CP-PROCESS110-1MA	299	Process input data logger, ±1 mA input range, extended battery life	
OM-CP-PROCESS110-1MA-CERT	359	Process input data logger, ±1 mA input range, extended battery life with NIST calibration certificate	
OM-CP-PROCESS110-25MA	299	Process input data logger, ±25 mA input range, extended battery life	
OM-CP-PROCESS110-25MA-CERT	359	Process input data logger, ±25 mA input range, extended battery life with NIST calibration certificate	
OM-CP-PROCESS110-100MA	299	Process input data logger, ±100 mA input range, extended battery life	
OM-CP-PROCESS110-100MA-CERT	359	Process input data logger, ±100 mA input range, extended battery life with NIST calibration certificate	
OM-CP-IFC110	99	Windows software and 1.2 m (4') RS-232 cable with DB9F termination	
OM-CP-IFC200	119	Windows software and 3.7 m (12') USB interface cable	
OM-CP-BAT105	12	Replacement 3.6 V lithium battery	
OM-CP-CONNECTOR-2	4	Replacement 2 position terminal block connector for the OM-CP-PROCESS101	
OM-CP-CONNECTOR-3	6	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 RS-232 cable are included with the OM-CP-IFC110 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-IFC110 Windows software and RS-232 cable, \$259 + 99 = **\$358**.



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