

# Voltage Input Data Loggers Part of the NOMAD® Family

## OM-CP-VOLT Series

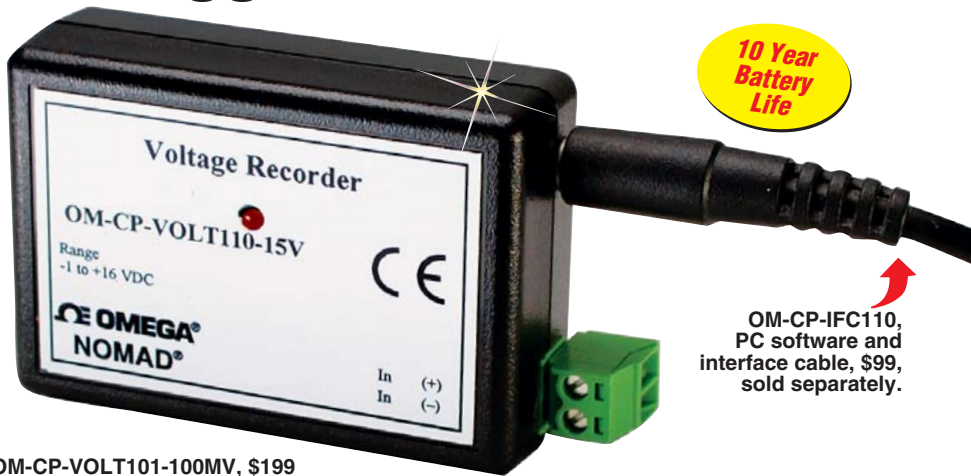
Starts at  
**\$199**



Optional †

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

The OM-CP-VOLT101 and OM-CP-VOLT110 are low cost, high resolution, miniature battery powered, stand-alone data loggers used for automatically recording voltages. 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 transducer that provides a voltage output to any user required units automatically. These all-in-one compact, portable, easy-to-use devices will measure and record up to 32,768 voltage measurements. These data loggers are a major leap forward in both size and performance. The 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. These data loggers are compact and can fit almost anywhere. Data retrieval is simple.



OM-CP-IFC110, PC software and interface cable, \$99, sold separately.

OM-CP-VOLT101-100MV, \$199 and OM-CP-VOLT110-15V, \$299, data loggers shown actual size.

1 Year Battery Life



Plug the data logger 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

#### Temperature Coefficient:

<50 ppm/°C typical

#### ADC Resolution:

16-bits

#### Voltage Calibration:

Digital calibration is available in software

#### Calibration Date:

Automatically recorded within device to alert user when calibration is required

#### 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

#### Memory:

32,768 voltage readings max

#### Power:

3.6 V lithium battery

#### Battery Life:

OM-CP-VOLT101: 1 year

at 1 min reading rate:

OM-CP-VOLT110: 10 years

at 15 min reading rate

**Time Accuracy:** ±1 minute/month when RS232 port is not in use

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

#### Computer Interface:

PC serial, RS232C COM or USB

#### Communications:

OM-CP-VOLT101: 2400 baud

OM-CP-VOLT110: 57600 baud

#### Software:

WIN98/NT/2000/XP/VISTA 32-bit

(VISTA 32-bit version only;

VISTA 64-bit is not supported)

#### Operating Environment:

-40 to 80°C (-40 to 176°F),

5 to 95% RH non-condensing

#### Dimensions:

##### OM-CP-VOLT101:

36 H x 56 W x 16 mm D

(1.4 x 2.2 x 0.6")

##### OM-CP-VOLT110:

43 H x 69 W x 20 mm D

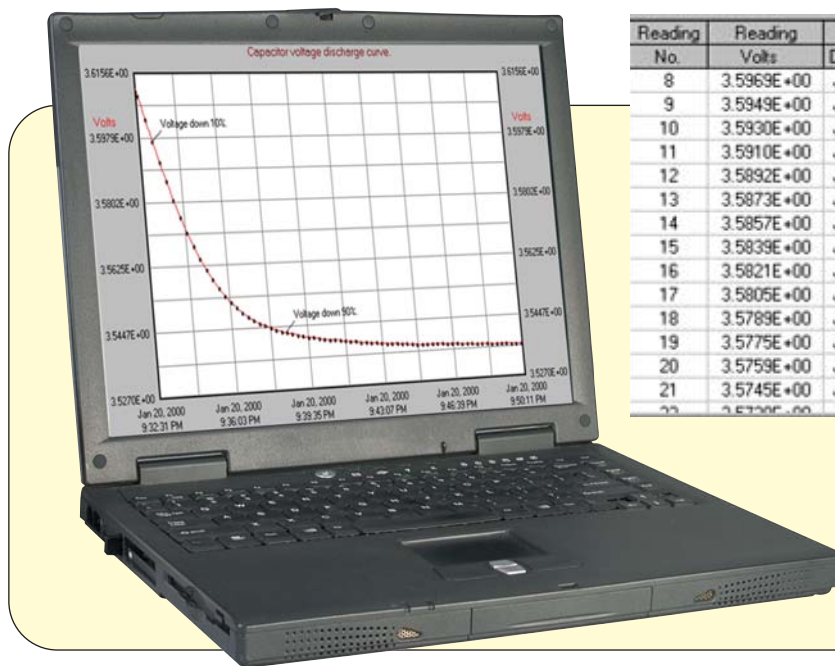
(1.7 x 2.7 x 0.8")

#### Weight:

OM-CP-VOLT101: 30 g (1 oz)

OM-CP-VOLT110: 60 g (2 oz)

† See ordering chart on next page to order models with NIST-traceable calibration certificate.



Reading No.	Reading Volts	Date and Time	Annotation
8	3.5969E+00	Jan 20, 2000 09:33:06 PM	Voltage down 10%.
9	3.5949E+00	Jan 20, 2000 09:33:11 PM	
10	3.5930E+00	Jan 20, 2000 09:33:16 PM	
11	3.5910E+00	Jan 20, 2000 09:33:21 PM	
12	3.5892E+00	Jan 20, 2000 09:33:26 PM	
13	3.5873E+00	Jan 20, 2000 09:33:31 PM	
14	3.5857E+00	Jan 20, 2000 09:33:36 PM	
15	3.5839E+00	Jan 20, 2000 09:33:41 PM	
16	3.5821E+00	Jan 20, 2000 09:33:46 PM	
17	3.5805E+00	Jan 20, 2000 09:33:51 PM	
18	3.5789E+00	Jan 20, 2000 09:33:56 PM	
19	3.5775E+00	Jan 20, 2000 09:34:01 PM	
20	3.5759E+00	Jan 20, 2000 09:34:06 PM	
21	3.5745E+00	Jan 20, 2000 09:34:11 PM	

Volts	
Minimum	3.5363E+00
Maximum	3.6116E+00
Arithmetic Mean	3.5473E+00
Standard Deviation	1.7001E-02

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

Laptop not included.

INPUT RANGES	OM-CP-VOLT101-100MV OM-CP-VOLT110-100MV	OM-CP-VOLT101-2.5V OM-CP-VOLT110-2.5V	OM-CP-VOLT101 OM-CP-VOLT110-15V	OM-CP-VOLT101-30V OM-CP-VOLT110-30V
Nominal Input Range	±100 mV	0 to 2.5V	0 to 15V	0 to 30V
Measurement Range	±150 mV	-0.25 to 2.75V	-1.0 to 16.0V	-2.0 to 32.0V
Resolution	5 µV	0.1 mV	0.5 mV	1.0 mV
Accuracy	±0.01% FSR	±0.01% FSR	±0.1% FSR	±0.1% FSR
Input Impedance	>1 kΩ**	>1 kΩ**	>10 kΩ	>10 kΩ
Overload Protection	±5V	±5V	±30V	±48V

\*\* >1 MΩ during acquisition

**MOST POPULAR MODELS HIGHLIGHTED!**

To Order (Specify Model Number)				
MODEL NO.	PRICE	RANGE	BATTERY LIFE	CE APPROVAL
OM-CP-VOLT101	\$199	0 to 15 V	1 yr	Y
OM-CP-VOLT101-2.5V	199	0 to 2.5 V	1 yr	Y
OM-CP-VOLT101-30V	199	0 to 30 V	1 yr	Y
OM-CP-VOLT101-100MV	199	0 to 100 mV	1 yr	Y
OM-CP-VOLT110-2.5V	299	0 to 2.5 V	10 yr	Y
OM-CP-VOLT110-15V	299	0 to 15 V	10 yr	Y
OM-CP-VOLT110-30V	299	0 to 30 V	10 yr	Y
OM-CP-VOLT110-100MV	299	0 to 100 mV	10 yr	Y

† To order with optional NIST-traceable calibration certificate, add suffix "-CERT" to model number, and \$60 to price.

### ACCESSORIES

MODEL NO.	PRICE	DESCRIPTION
OM-CP-IFC110	\$99	Windows software and 1.2 m (4') RS232 cable, DB9F
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 OM-CP-VOLT models except for 100 mV input models
OM-CP-CONNECTOR-3	6	Replacement 3 position terminal block connector, for 100 mV input models

Operator's manual and RS232 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-VOLT101-CERT voltage data logger with NIST calibration certificate and OM-CP-IFC110 Windows software and RS232 cable, \$259 + 99 = \$358.



#### UNITED STATES

[www.omega.com](http://www.omega.com)  
1-800-TC-OMEGA  
Stamford, CT.

#### CANADA

[www.omega.ca](http://www.omega.ca)  
Laval(Quebec)  
1-800-TC-OMEGA

#### GERMANY

[www.omega.de](http://www.omega.de)  
Deckenpfronn, Germany  
0800-8266342

#### UNITED KINGDOM

[www.omega.co.uk](http://www.omega.co.uk)  
Manchester, England  
0800-488-488

#### FRANCE

[www.omega.fr](http://www.omega.fr)  
Guyancourt, France  
088-466-342

#### CZECH REPUBLIC

[www.omegaeng.cz](http://www.omegaeng.cz)  
Karviná, Czech Republic  
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