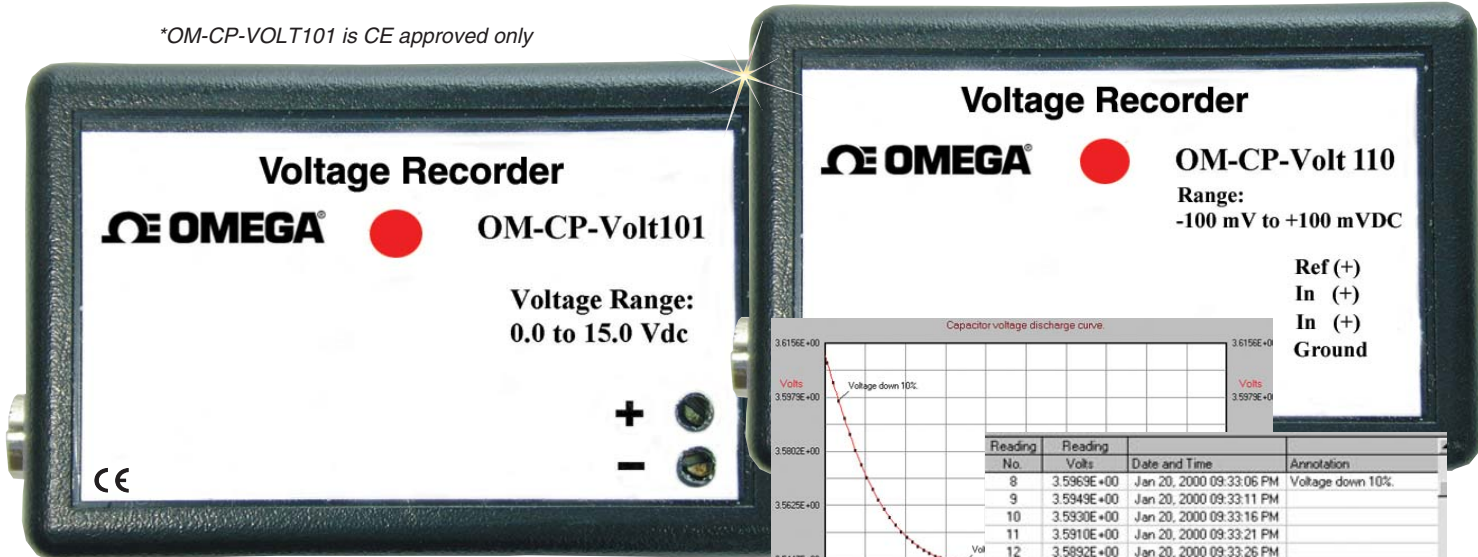


# OM-CP-VOLT101 and OM-CP-VOLT110 Voltage Data Loggers Part of the NOMAD® Family

\*OM-CP-VOLT101 is CE approved only



OM-CP-VOLT101, \$199 and OM-CP-VOLT110, \$299, dataloggers shown larger than actual size

## \$199

Basic Unit

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



- ✓ 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.

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

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 2.5 V	0 to 15 V	0 to 30
Measurement Range	±150 mV	-0.25 to 2.75 V	-1.0 to 16.0 V	-2.0 to 32.0 V
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 K Ω*	>1 K Ω*	>10 K Ω	>10 K Ω
Overload Protection	±5 V	±5 V	±30 V	±48 V

\* >1M Ω during acquisition

**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 RS-232 port is not in use  
**Data Format:** Date and time stamped, microvolts, millivolts, volts, other engineering units programmable through software  
**Weight:**  
 OM-CP-VOLT101: 30 g (1 oz)  
 OM-CP-VOLT110: 60 g (2 oz)  
**Computer Interface:**  
 PC serial, RS-232C COM or USB  
**Communications:**  
 OM-CP-VOLT101: 2400 baud  
 OM-CP-VOLT110: 57600 baud

**Software:**  
 Windows 95/98/NT/2000/XP  
**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")

**MOST POPULAR MODELS HIGHLIGHTED!**

<b>To Order (Specify Model Number)</b>		
<b>Model No.</b>	<b>Price</b>	<b>Description</b>
OM-CP-VOLT101	199	Voltage data logger with 1 year battery life, 15 V input range (CE approved)
OM-CP-VOLT101-CERT	259	Voltage data logger with 1 year battery life, 15 V input range (CE approved) with NIST calibration certificate
OM-CP-VOLT101-2.5V	199	Voltage data logger with 1 year battery life, 2.5 V input range (CE approved)
OM-CP-VOLT101-2.5V-CERT	259	Voltage data logger with 1 year battery life, 2.5 V input range (CE approved) with NIST calibration certificate
OM-CP-VOLT101-30V	199	Voltage data logger with 1 year battery life, 30 V input range (CE approved)
OM-CP-VOLT101-30V-CERT	259	Voltage data logger with 1 year battery life, 30 V input range (CE approved) with NIST calibration certificate
OM-CP-VOLT101-100MV	199	Voltage data logger with 1 year battery life, ±100 mV input range (CE approved)
OM-CP-VOLT101-100MV-CERT	259	Voltage data logger with 1 year battery life, ±100 mV input range (CE approved) with NIST calibration certificate
OM-CP-VOLT110-2.5V	299	Voltage data logger with 10-year battery life, 2.5 V input range
OM-CP-VOLT110-2.5V-CERT	359	Voltage data logger with 10-year battery life, 2.5 V input range with NIST calibration certificate
OM-CP-VOLT110-15V	299	Voltage data logger with 10-year battery life, 15 V input range
OM-CP-VOLT110-15V-CERT	359	Voltage data logger with 10-year battery life, 15 V input range with NIST calibration certificate
OM-CP-VOLT110-30V	299	Voltage data logger with 10-year battery life, 30 V input range
OM-CP-VOLT110-30V-CERT	359	Voltage data logger with 10-year battery life, 30 V input range with NIST calibration certificate
OM-CP-VOLT110-100MV	299	Voltage data logger with 10-year battery life, ±100 mV input range
OM-CP-VOLT110-100MV-CERT	359	Voltage data logger with 10-year battery life, ±100 mV input range 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 OM-CP-VOLT101-2.5V, OM-CP-VOLT101-15V, OM-CP-VOLT101-30V, OM-CP-VOLT110-2.5V OM-CP-VOLT110-15V and OM-CP-VOLT110-30V
OM-CP-CONNECTOR-3	4	Replacement 3 position terminal block connector for OM-CP-VOLT101-100MV and OM-CP-VOLT110-100MV

Operator's manual 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-VOLT101-CERT voltage data logger with NIST calibration certificate and OM-CP-IFC110 Windows software and RS-232 cable, \$259 + 99 = \$358.



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