

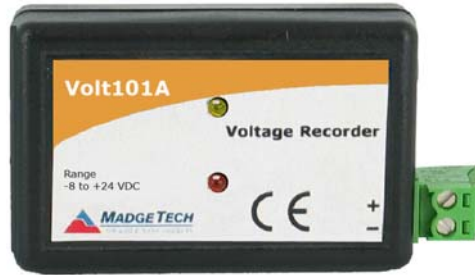
VOLT101A

VOLTAGE DATA LOGGER



Features

- 4Hz Reading Rate
- Enhanced manual start/stop
- 10 year battery life
- Low battery indicator
- LED alarming
- Programmable engineering units
- 1,000,000 readings storage
- High speed download capability
- CE compliant



Voltage is one of the most fundamental and useful types of measurement performed today. Many scientific instruments and sensors provide a voltage output that represents the magnitude of some parameter being measured such as temperature, pH, flow rate, pressure, strain, etc.

Benefits

- Simple setup and installation
- Minimal long-term maintenance
- Long-term field use

The Volt101A provides a low cost solution for adding recording capability to an already existing measurement system. Its high accuracy and 16 bit resolution place this product at the forefront for low level dc voltage recording devices. This device is ideal for accurately measuring and recording battery voltages, sensor output signals, photovoltaic studies, as well as many other low level dc voltage sources. With user programmable engineering units, the user can scale the input voltage to most any type of unit desired automatically. This is a unique and very useful feature for presentations.

Applications

- Low level signal monitoring
- Battery studies
- Power supply monitoring
- Process plants
- Research and development

The Volt101A is available in three different input ranges: 2.5V, 15V and 30V versions.

MADGETECH DATA LOGGER SOFTWARE

Key

- A Volt101A Graph
- B Tabular Data View
- C Statistics
- D Digital Calibration
- E Copy to Excel

The screenshot displays the Madgetech software interface. The main window shows a graph of voltage readings over time. A data table is visible at the bottom left, with columns for Step #, Date & Time (EDT), Voltage, Units, and Annotation. A 'Voltage Statistics' window is open, showing calculation parameters like Start Time, End Time, and Average. A 'Volt101 Calibration' dialog box is also present, with fields for Device Type, Serial Number, Last Calibration Date, Next Calibration Due, Voltage Gain Value, and Voltage Offset Value. A 'Copy to Excel' button is highlighted in the top right corner of the graph area.

- Software Features:**
- Multiple graph overlay
 - Statistics calculations
 - Digital calibration
 - Zoom in/ zoom out
 - Average line
 - Lethality equations
 - Full time zone support
 - Data annotation
 - Min./max. line
 - Data table view
 - Automatic report generation
 - Summary view
 - Multilingual

VOLT101A SPECIFICATIONS

Input Connection:	Removable screw terminal		
Model:	2.5V	15V	30V
Voltage Range:	-3.25 to +3.25V	-8 to +24.75V	-8 to +32.75V
Voltage Resolution:	0.1 mV	0.5 mV	1.0 mV
Calibrated Accuracy:	±0.05%		
Input Impedance:	125kΩ		
Overload Protection:	±50 V, indefinitely		
Analog Conversion Time:	133 ms		
Frequency Rejection:	50/60Hz		
Specified Accuracy Range:	Nominal range @ 25°C (-40 to 80°C)		
Alarm:	User selectable high and low limits, blinking LED for alarm and low battery		
Engineering Units:	Native measurement units can be scaled to display measurement units of another type. This is useful when monitoring voltage outputs from different types of sensors such as temperature, CO2, flow rate and more		
Start Modes:	<ul style="list-style-type: none"> • Software programmable immediate start • Delay start up to 6 months in advance • Enhanced start/stop mode 		
Memory:	1,000,000 readings; software configurable memory wrap; 330,000 readings in enhanced start/stop mode		

Reading Rate:	4 readings every second (4Hz) to 1 every 12 hours
Real Time Recording:	May be used with PC to monitor and record data in real time
Calibration:	Digital calibration through software
Calibration Date:	Automatically recorded within device
Battery Type:	3.6V lithium battery included; user replaceable
Battery Life:	10 years typical at a 15 minute reading rate
Data Format:	Date and time stamped V, mV, μV, engineering units specified through software
Time Accuracy:	±1 minute/month (at 20°C, stand alone data logging)
Computer Interface:	USB (interface cable required); 115,200 baud
Operating System:	XP SP3/Vista/Windows 7
MadgeTech Software:	Version 2.03 or higher required
Operating Environment:	-40 to +80°C, 0 to 95%RH non-condensing
Dimensions:	1.4" x 2.5" x 0.6" (36mm x 64mm x 16mm)
Weight:	0.9 oz (24 g)
Materials:	ABS plastic
Approvals:	CE

BATTERY WARNING: WARNING: FIRE, EXPLOSION, AND SEVERE BURN HAZARD. DO NOT SHORT CIRCUIT, CHARGE, FORCE OVER DISCHARGE, DISASSEMBLE, CRUSH, PENETRATE OR INCINERATE. BATTERY MAY LEAK OR EXPLODE IF HEATED ABOVE 80°C (176°F).

ORDERING INFORMATION

MODEL	DESCRIPTION	PRICE (U.S.)
VOLT101A-2.5V	±2.5V Voltage Recorder	\$179.00
VOLT101A-15V	±15V Voltage Recorder	\$179.00
VOLT101A-30V	±30V Voltage Recorder	\$179.00
IFC200	Software, manual and USB interface cable	\$119.00
*NIST	N.I.S.T. Calibration Certificate	Call for Pricing
LTC-7PN	Replacement battery for Volt101A	\$10.00

For Quantity Discounts call 603-456-2011 or email sales@madgetech.com

*To order the product with the N.I.S.T. certificate add -CERT to the end of the part number and add \$60.00 to the price.

ASK ABOUT OUR OTHER DATA RECORDERS

- Temperature
- Humidity
- Pressure
- pH
- Level
- Shock
- LCD Display
- Pulse/Event/State
- Low Level Current
- Low Level Voltage
- RF Transmitters
- Intrinsically Safe
- Spectral Vibration

