

VOLT101A-160MV

DIFFERENTIAL VOLTAGE DATA LOGGER



Features

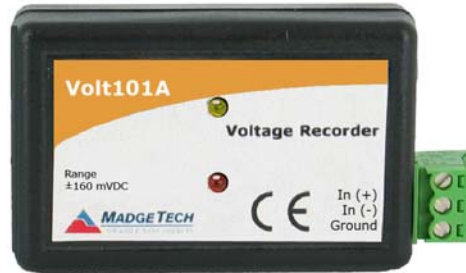
- 4Hz Reading Rate
- Enhanced manual start/stop
- 10 year battery life
- Low battery indicator
- LED alarming
- Programmable engineering units
- 1,000,000 readings storage
- High speed download capability
- CE compliant

Benefits

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

Applications

- Low level signal monitoring
- Battery studies
- Photovoltaic studies
- Current shunts
- Thermopiles

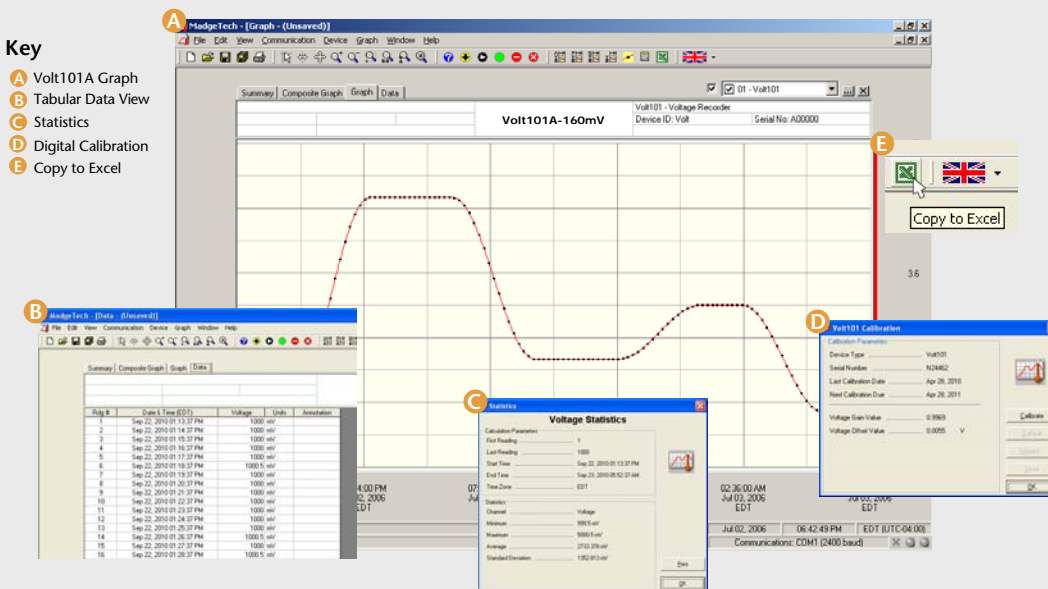


The Volt101A-160mV is geared toward helping users measure and record differential, low-level voltages with high accuracy and resolution. The Volt101A-160mV is equipped with a 3-position screw terminal, for positive, negative and ground connections. The device samples as fast as 4Hz, allowing it to capture more data than the original Volt101. Featuring a 10 year battery life, the device can be left in the field for months or years and long term maintenance is minimal.

The Volt101A-160mV is also equipped with alarming functionality. It can be programmed with high and low limits, and will trigger the red LED to blink if they are breached.

With user programmable engineering units available inside the device, the user can scale the input voltage to most any type of unit desired such as temperature, CO2, light and more. Engineering units in the device are a great time saver as the data is shown in the scaled unit and can be downloaded on any computer with the MadgeTech Software. This is a unique and very useful feature for presentations.

MADGETECH DATA LOGGER SOFTWARE



- 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-160MV SPECIFICATIONS

Input Connection:	Removable screw terminal
Voltage Range:	±160 mV
Voltage Resolution:	5µV
Calibrated Accuracy:	±0.01%FSR
Specified Accuracy Range:	Nominal range @ 25°C
Input Impedance:	>1MΩ
Analog Conversion Time:	133 ms
Frequency Rejection:	50/60Hz
Overload Protection:	±5.0V for 10 seconds
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-160MV	±160mV Differential Voltage Recorder	\$179.00
IFC200	Software, manual and USB interface cable	\$119.00
*NIST	N.I.S.T. Calibration Certificate	\$60.00
LTC-7PN	Replacement battery for Volt101A-160mV	\$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

