VOLT101A-160MV DIFFERENTIAL DC VOLTAGE DATA LOGGER

Features

- 10 Year Battery Life
- 4 Hz Reading Rate
- Multiple Start/Stop Function
- Ultra High Speed Download
- 1 Million Reading Storage Capacity
- Memory Wrap
- Battery Life Indicator
- Optional Password Protection
- Programmable High and Low Alarms
- NIST Traceable
- Field Upgradeable

Benefits

- Simple Setup and Installation
- Minimal Long-Term Maintenance
- Long-Term Field Deployment

Applications

- Low Level Signal Monitoring
- Battery Studies
- Photovoltaic Studies
- Current Shunts
- General Purpose Voltage Recording



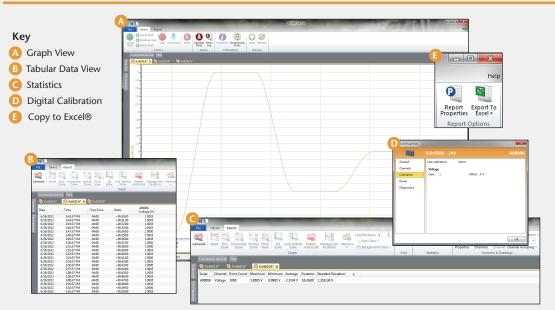
WE BUILD DATA LOGGERS

The MadgeTech Volt101A-160mV data logger is a low cost, state-of-the-art data logger for measuring a voltage range of ± 160 mV. The range and resolution of this particular data logger makes it ideal for low level signal monitoring, battery studies, current shunts and photovoltaic studies.

The Volt101A-160mV offers a 10 year battery life, up to 4 Hz reading rate, a multiple start/stop

function, ultra-high speed data download, 1 million reading storage capacity (optional memory wrap), battery life indicator, optional password protection, programmable high-low alarms and more. The compact size and removable terminal block on the device makes for easy retrieval and reconnection.

Simply use the MadgeTech Data Logger Software to easily configure and download data from the Volt101A-160mV. Graphical, tabular and summary data is provided for analysis and data can be displayed in multiple units, using the Engineering Units function. The data can also be exported to Excel® for further custom reporting and calculations.



MADGETECH DATA LOGGER SOFTWARE

Software Features:

- Multiple graph overlay
- Statistics
- Digital calibration
- Zoom in/ zoom out
- Lethality equations (F0, PU)
- Mean Kinetic Temperature
- Full time zone support
- Data annotation
- Min./Max./Average lines
- Data table view
- Automatic report generation
- Summary view
- Multilingual

VOLT101A-160MV SPECIFICATIONS*

Input Connection:	Removable screw terminal	Password Protection:	An optional password may be programmed into the device to restrict access to configuration options. Data may be read out without the password.		
Voltage Range:	±160 mV	russword riotection.			
Voltage Resolution:	5 μV		Native measurement units can be scaled to display		
Calibrated Accuracy:	±0.01 %FSR	Engineering Units:	measurement units of another type. This is useful when monitoring voltage outputs from different types		
Specified Accuracy Range:	Nominal range @ 25 °C	of sensors such as temperature, CO2, flow rate and			
Input Impedance:	>1MΩ	Calibration:	Digital calibration through software		
Analog Conversion Time:	150 ms	Calibration Date:	Automatically recorded within device		
Frequency Rejection:	50/60Hz	Battery Type:	3.6V lithium battery included; user replaceable		
Overload Protection:	±5.0 V for 10 seconds		10 years typical at a 15 minute reading rate		
Reading Rate:	4 readings every second up to 1 reading every 24 hours	Volt101A-160mV			
Memory:	 1,000,000 readings; software configurable memory wrap 330,000 readings in multiple start/stop mode 	Battery Life:	11000		
Wrap Around	Yes		8000		
Start Modes:	 Immediate start Delay start up to 18 months Multiple pushbutton start/stop 		20.00		
Stop Modes:	Manual through softwareTimed (specific date and time)		0.00 0.01 0.10 1.00 100.00 1000.00 Reading rate (minutes)		
Multiple Start/Stop Mode:	Start and stop the device multiple times without having to download data or communicate with a PC	Data Format:	Graph display of the device recording in a 25 °C environment. Date and time stamped V, mV, µV, engineering units specified through software		
	 To start the device: Press and hold the pushbutton for 5 seconds, the green LED will flash during this time. The device has started logging. To stop the device: Press and hold the pushbutton for 5 seconds, the red LED will flash during this time. The device has stopped logging. 	Time Accuracy:	±1 minute/month (at 25 °C, stand alone logging)		
		Computer Interface:	USB (interface cable required); 115,200 baud		
Multiple Start/Stop Mode Activation:		Operating System:	XP SP3/Vista/Windows 7/Windows 8 MadgeTech Software 2.03 or higher required		
		Operating Environment:	-40 °C to +80 °C, 0 %RH to 95 %RH non-condensing		
		Dimensions:	1.4 in x 2.1 in x 0.6 in (35 mm x 54 mm x 16 mm)		
Real Time Recording:	The device may be used with PC to monitor	Weight:	0.9 oz (24 g)		
Kear time kecording.	and record data in real time	Materials:	ABS plastic		
Alarm:	User selectable high and low limits; blinking LED for alarm and low battery	Approvals:	CE		
LED Functionality:	 Green LED blinks: 10 seconds to indicate logging 15 seconds to indicate delay or manual start mode - standby (waiting to start) Red LED blinks: 10 seconds to indicate low battery and/or memory 1 second to indicate an alarm condition 	CHARGE, FORCE OVER DISCHARG BATTERY MAY LEAK OR EXPLODE *SPECIFICATIONS ARE SUBJECT T	SION, AND SEVERE BURN HAZARD. DO NOT SHORT CIRCUIT, SE, DISASSEMBLE, CRUSH, PENETRATE OR INCINERATE. IF HEATED ABOVE 80 °C (176 °F). O CHANGE WITHOUT NOTICE. SPECIFIC WARRANTY AND REM- D3-456-2011 OR GO TO WWW.MADGETECH.COM FOR DETAILS.		

ORDERING INFORMATION

MODEL	DESCRIPTION	ASK ABOUT OUR OTHER DATA LOGGERS	riessure
VOLT101A-160MV	±160 mV Differential Voltage Data Logger		Level
IFC200	Software, manual and USB interface cable	LOGGERS	Shock LCD Display
Calibration Certificate	Calibration Certificate available for data logger		Pulse/Event/State Current
LTC-7PN	Replacement battery for Volt101A-160mV	Ir	Voltage Wireless Intrinsically Safe

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



