VOLT101A 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
- Power Supply Monitoring
- Process Plants
- Research and Development
- General Purpose Voltage Recording



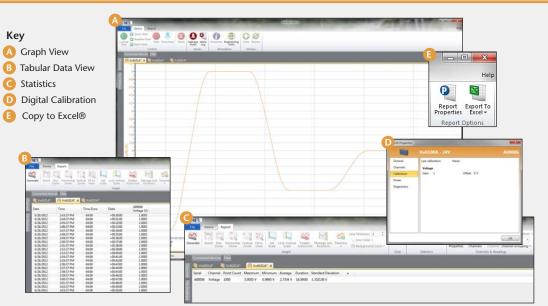
MADGETECH WE BUILD DATA LOGGERS

MadgeTech's Volt101A data loggers are versatile data logging devices with many uses and applications. Connect negative and positive wire leads directly to the terminal port on the Volt101A to monitor and measure voltage levels. The Volt101A is commonly used to assess battery efficiencies or photovoltaic studies to identify how much energy is being created from solar cells.

The Volt101A features a removable terminal

block to allow for simple retrieval of the data logger for downloading while leaving the leads connected. With a ten year battery life and the ability to store up to one million time and date stamped readings, this device is ideal for long term deployment and voltage studies.

Four models of the Volt101A are available. The 2.5 V is capable of measuring -3V to 3 V, the 15 V capable of measuring -8 V to 24 V, and the 30 V which can measure from -8 V to 32 V. For lower voltage applications that require a higher resolution, MadgeTech also offers the Volt101A 160 mV model, which can measure voltage between -160 and 160 mV.



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 SPECIFICATIONS*

Input Connection:	Removable screw terminal		Password Protection:	An optional password may be programmed into the device to restrict access to configuration options. Data			
Model:	2.5V	15V	30V		may be read out without the password.		
Voltage Range:	-3 to +3V	-8 to +24V	-8 to +32V		Native measurement units can be scaled to display		
Voltage Resolution:	0.1 mV	0.5 mV	1.0 mV	Engineering Units:	measurement units of another type. This is useful when monitoring voltage outputs from different types		
Calibrated Accuracy:)5% FSR at 25°C	2		of sensors such as temperature, CO2, flow rate and more.		
Input Impedance:	125kΩ			Calibration:	Digital calibration through software		
Overload Protection:	±50 V, indefinite	у		Calibration Date:	Automatically recorded within device		
Analog Conversion Time:	150 ms			Battery Type:	3.6V lithium battery included; user replaceable		
Frequency Rejection:	50/60Hz				10 years typical at a 15 minute reading rate		
Reading Rate:	4 readings every second up to 1 reading every 24 hours				Volt101A		
Memory:	 1,000,000 readings; software configurable memory wrap 330,000 readings in multiple start/stop mode 				Vera 2000		
Wrap Around	Yes			Battery Life:	0.04		
Start Modes:	 Immediate start Delay start up to 18 months Multiple pushbutton start/stop 				20.05		
Stop Modes:	Manual througTimed (specifi)		0.00 0.00 0.01 0.10 1.00 100.00 100.00 Reading rate (minutes)		
	Start and stop the device multiple times without having to download data or				Graph display of the device recording in a 25 °C environment.		
Multiple Start/Stop Mode:	communicate wi	th a PC	a or	Data Format:	Date and time stamped V, mV, μ V, 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: 			Time Accuracy:	±1 minute/month (at 25 °C, stand alone logging)		
Multiple Start/Stop Mode Activation:				Computer Interface:	USB (interface cable required); 115,200 baud		
				Operating System:	XP SP3/Vista/Windows 7/Windows 8 MadgeTech Software 2.03 or higher required		
		the pushbutton		Operating Environment:	-40 °C to +80 °C, 0 %RH to 95 %RH non-condensing		
	device has stop	ll flash during thi ped logging.	s unne. The	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 and record data in real time			Weight:	0.9 oz (24 g)		
Real Time Recording.				Materials:	ABS plastic		
Alarm:	User selectable hi LED for alarm and		its; blinking	Approvals:	CE		
LED Functionality:	 15 seconds to mode - standb Red LED blink: 10 seconds to in memory 	indicate logging indicate delay or y (waiting to sta	rt) ry and/or		SION, AND SEVERE BURN HAZARD. DO NOT SHORT CIRCUIT, 3E, DISASSEMBLE, CRUSH, PENETRATE OR INCINERATE. IF HEATED ABOVE 80 °C (176 °F). -		

ORDERING INFORMATION

ODEL	DESCRIPTION	
VOLT101A-2.5V	2.5 V Voltage Data Logger	
VOLT101A-15V	15 V Voltage Data Logger	
VOLT101A-30V	30 V Voltage Data Logger	
IFC200	Software, manual and USB interface cable	
*NIST	NIST Calibration Certificate	
LTC-7PN	Replacement battery for Volt101A	



Contact: Industrial Process Measurement, Inc. 3910 Park Avenue, Unit 7 Edison, NJ 08620 732-632-6400 support@instrumentation2000.com http://www.instrumentation2000.com Motion