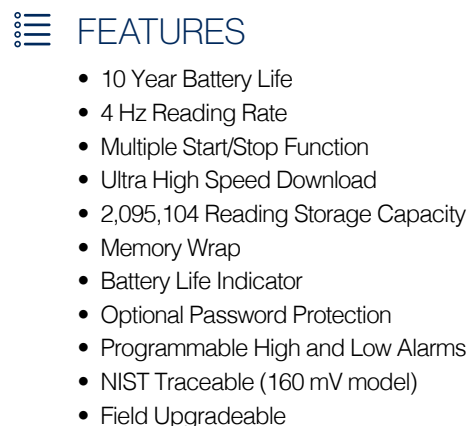




The Volt101A features a removable terminal block to allow for simple retrieval of the data logger for downloading while leaving the leads connected. With a ten year battery life and the ability to store over 2 million time and date stamped readings, this device is ideal for long term deployment and voltage studies.

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
- Photovoltaic Studies
- Current Shunts (160 mV model)
- Research and Development
- General Purpose Voltage Recording



- [illegible]

Specifications

Specifications are subject to change without notice. Specific warranty remedy limitations apply. Call **(603) 456-2011** or go to **madgetech.com** for details.

GENERAL	
Start Modes	Immediate start Delay start up to 18 months Multiple pushbutton start/stop
Stop Modes	Manual through software Timed (specific date and time)
Multiple Start/Stop Mode	Start and stop the device multiple times without having to download data or communicate with a PC
Real Time Recording	May be used with PC to monitor and record data in real time
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.
Memory	2,095,104 readings; software configurable memory wrap 698,368 readings in multiple start/stop mode
Wrap Around	Yes
Alarm	User selectable high and low limits; blinking LED for alarm and low battery
LEDs	2 Status LEDs
Reading Rate	4 readings every second up to 1 reading every 24 hours
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, μ V, engineering units specified through software
Time Accuracy	± 1 minute/month at 25 °C (77 °F) (Stand alone mode)
Computer Interface	USB (interface cable required); 115,200 baud
Operating System Compatibility	Windows XP SP3 or later

Software Compatibility	Standard Software version 2.03.06 or later Secure Software version 3.01.9 or later
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 15 mm)
Weight	0.8 oz (24 g)
Material	Polycarbonate
Approvals	CE

MEASUREMENT				
Input Connection	Removable screw terminals			
Model	3.2 V	24 V	32 V	160 mV
Voltage Range	-3 V to +3 V	-8 V to +24 V	-8 V to +32 V	± 160 mV
Voltage Resolution	0.1 mV	0.05 mV	1.0 mV	0.005 mV
Calibrated Accuracy	± 0.05 % FSR at 25 °C			± 0.01 %FSR
Input Impedance	125 k Ω			> 1 M Ω
Overload Protection	± 50 V, indefinitely			± 5.0 V for 10 seconds
Analog Conversion Time	150 ms			
Frequency Rejection	50/60 Hz			
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.			

BATTERY WARNING: Fire, explosion and severe burn hazard. Do not recharge, disassemble, heat above 100 °C (212 °F), incinerate, crush, or expose contents to water.

Ordering Information

Volt101A-3.2V	PN 901850-00	3.2 V Voltage Data Logger
Volt101A-24V	PN 901840-00	24 V Voltage Data Logger
Volt101A-32V	PN 901854-00	32 V Voltage Data Logger
VOLT101A-160MV	PN 901846-00	± 160 mV Differential Voltage Data Logger
IFC200	PN 900298-00	USB interface cable
LTC-7PN	PN 900352-00	Replacement battery for the Volt101A

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