VOLT101
VOLTAGE RECORDER

Features

- Programmable engineering units
- Multiple input ranges available
- Real-time operation
- Programmable start time
- Reusable
- Miniature size
- Low cost
- User-friendly
- CE compliant

Applications

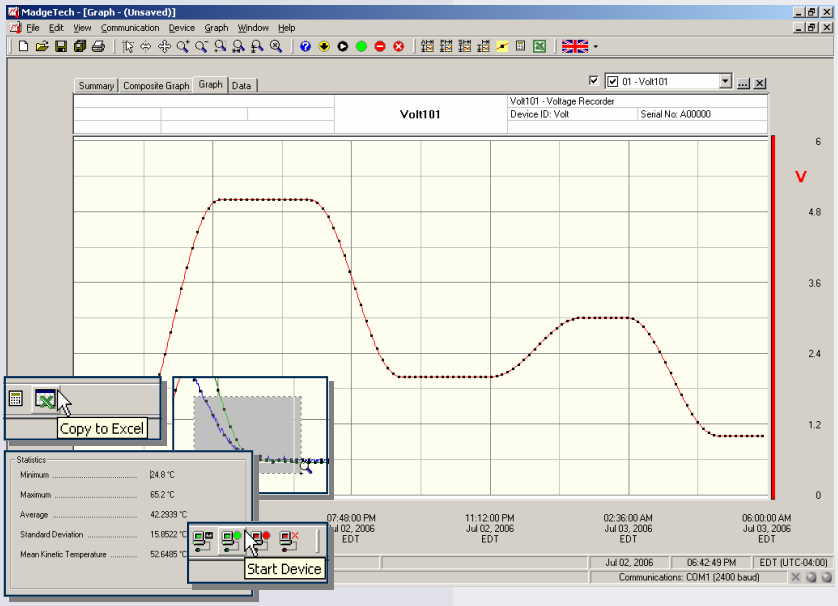
- Low level signal monitoring
- Battery studies
- Power supply monitoring
- Process plants
- Medical/Pharmaceutical
- Research and development
- Environmental studies
- Replace costly strip chart recorders

Voltage is one of the most basic, yet useful types of measurement performed today. There are many different types of applications in which knowing a voltage level can provide necessary information used to enhance performance and/or give the user proper control of their equipment.

The Volt101 is geared toward helping users measure and record low-level voltages with high accuracy and resolution. The device records 16 bits of resolution, ideal for accurately measuring battery voltages, sensor monitoring, photovoltaic studies, measuring thermopiles as well as many other common voltage sources.

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. This is a unique and very useful feature for presentations.

The Volt101 is available in three different input ranges: 2.5V, 15V and 30V versions.



MadgeTech Data Recorder Software
displays voltage data in an easy to use graph.

The Windows®-based software package allows the user to effortlessly collect, display and analyze data. A variety of powerful tools allow you to examine, export, and print professional looking data with just a click of the mouse.

Click MadgeTech Software for more information or to download the software.

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VOLT101 SPECIFICATIONS*

Input Connection: Removable screw terminal

Model:	2.5V	15V	30V
Voltage Range:	-0.25 to +2.75	-1.0 to +16.0	-2.0 to +32.0
Voltage Resolution:	0.1 mV	0.5 mV	1.0 mV
Calibrated Accuracy:	±0.01 (%FSR)	±0.10 (%FSR)	±0.10 (%FSR)
Input Impedance:	>1 kΩ**	>10 kΩ	>10 kΩ
Overload Protection:	±5 V	±30 V	± 48 V

Analog Conversion Time: 133 ms

Frequency Rejection: 60Hz

Temperature Coefficient: <25ppm/ºC; <10ppm/ºC typical

Specified Accuracy Range: Nominal range @ 25ºC

Engineering Units: User may define units up to 10 characters in length. This value is stored within the device.

Scale Factor: User may program any desired scaling factor from ±1.000E-31 to ±9.999E+31. The scaling factor is stored within the device.

Start Time: Software programmable start time and date, up to six months in advance

Memory: 32,767 readings; software configurable memory wrap

Reading Interval: 1 reading every second 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

Power: 3.6V lithium battery included

User Replaceable Battery: 1 year typical

Data Format: Date and time stamped V, mV, µV, engineering units specified through software

Time Accuracy: ±1 minute/month (at 20ºC, RS232 cable not in use)

Computer Interface: PC serial or USB (interface cable required); 2,400 baud

Software: Windows 95/98/ME/NT/2000/XP based software

Operating Environment: -40 to +80ºC, 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 compliant

**Input impedance is greater than 1 MΩ during acquisition for the VOLT101-2.5

BATTERY WARNING: FIRE, EXPLOSION, AND SEVERE BURN HAZARD.
DO NOT RECHARGE, DISASSEMBLE, HEAT ABOVE 212ºF,
INCINERATE OR EXPOSE CONTENTS TO WATER.

SOFTWARE FEATURES

Multiple Graphs: Simultaneously analyze data from several units or deployments; easily switch to a single data series

Graphical Cursor: One click displays readings by time, value, parameter or sample number

Data Table: Instantly access tabular view for detailed dates, times, values, and annotations

Scaling Options: Autoscale function fits data to the screen, or allows user to manually enter their own values

Formatting Options: Change colors, line styles, plotting options, show or hide channels quickly

Statistics: Calculate averages, min, max, standard deviation, and mean kinetic temperature with the touch of a button

Export Data: Export data in a variety of common formats, or switch to Excel® with a single click

Calibration: Automatically calculate and store calibration parameters

Logger Configuration: Easy set up and launch of data loggers with immediate or delayed start, preferred sample rate, and device ID

Communications: Automatically sets up communications port, or lets user select configuration

*SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE.
SPECIFIC WARRANTY AND REMEDY LIMITATIONS APPLY.
CALL 1-603-456-2011 OR GO TO WWW.MADGETECH.COM FOR DETAILS.

ORDERING INFORMATION

Model	Description	Price (U.S.)
VOLT101-2.5V	±2.5V Voltage Recorder	$199.00
VOLT101-15V	±15V Voltage Recorder	$199.00
VOLT101-30V	±30V Voltage Recorder	$199.00
IFC110	Software, manual and RS232 interface cable	$99.00
IFC200	Software, manual and USB interface cable	$119.00
NIST	N.I.S.T. Calibration Certificate	Call for Pricing
LTC-7PN	Replacement battery for Volt101	$10.00

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

ASK ABOUT OUR OTHER DATA RECORDERS

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

MADGETECH
WE BUILD DATA LOGGERS