

OCTVOLT-100MV DIFFERENTIAL DC VOLTAGE DATA LOGGER



Features

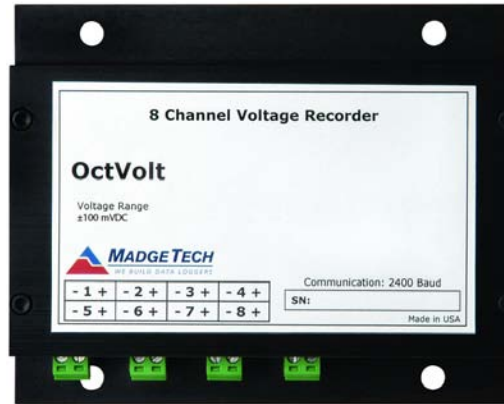
- Real-time Operation
- Programmable Engineering Units
- Low Cost
- Compact
- User-Friendly
- Programmable Start Time
- Reusable

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



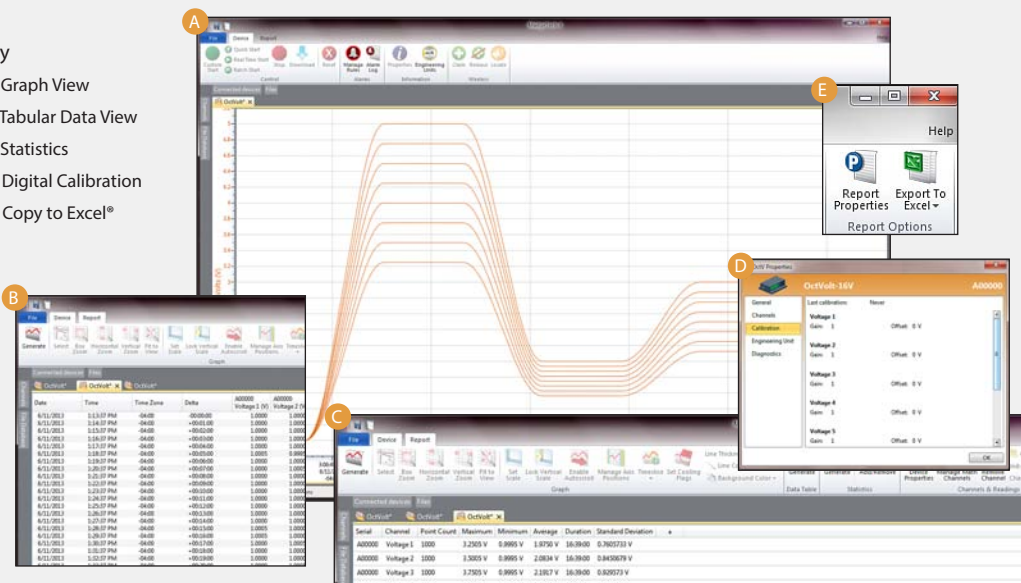
The OctVolt-100mV is an eight channel, battery powered, differential voltage data logger. This easy to use device features a 1 year battery life, 1 second reading rate, user replaceable battery and programmable engineering units. The OctVolt-100mV can measure and record up to 16,383 readings per channel. The storage medium is non-volatile solid state memory, providing maximum data security even if the battery becomes discharged.

Using the MadgeTech Software, starting, stopping and downloading from the OctVolt-100mV is simple and easy. Graphical, tabular and summary data is provided for analysis and data can be viewed in multiple units, using the Engineering Units function. The data can also be automatically exported to Excel® for further calculations.

MADGETECH DATA LOGGER SOFTWARE

Key

- A** Graph View
- B** Tabular Data View
- C** Statistics
- D** Digital Calibration
- E** Copy to Excel®



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

OCTVOLT-100MV SPECIFICATIONS*

Input Connection:	Removable screw terminal
Voltage Range:	±100 mV
Measurement Range:	±150 mV
Voltage Resolution:	5 µV
Calibrated Accuracy:	±0.01 %FSR
Input Impedance:	>1 kΩ, >1 MΩ during acquisition
Analog Conversion Time:	133 ms
Frequency Rejection:	60 Hz
Temperature Coefficient:	<25 ppm/°C; <10p pm/°C typical
Overload Protection:	±5.0 V for 10 seconds
Specified Accuracy Range:	Nominal range @ 25 °C
Reading Rate:	1 readings every second up to 1 reading every 12 hours
Memory:	16,383 readings per channel; software configurable memory wrap
Wrap Around:	Yes
Start Modes:	<ul style="list-style-type: none"> • Immediate start • Delay start up to 6 months
Calibration:	Digital calibration through software

Real Time Recording:	The device may be used with PC to monitor and record data in real-time
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
Calibration Date:	Automatically recorded within device
Battery Type:	9V lithium or alkaline battery included; user replaceable
Battery Life:	1 year typical
Data Format:	Date and time stamped V, mV, µV, engineering units specified through software
Time Accuracy:	±1 minute/month (at 20 °C, stand alone logging)
Computer Interface:	PC serial or USB (interface cable required); 2,400 baud
Operating System:	XP SP3/Vista/Windows 7/Windows 8
Operating Environment:	-20 °C to +60 °C, 0 %RH to 95 %RH non-condensing
Dimensions:	3.5 in x 4.4 in x 1.5 in (89 mm x 112 mm x 39 mm)
Weight:	17 oz (480 g)
Materials:	Black anodized aluminum

BATTERY WARNING: DISCARD USED BATTERY PROMPTLY. KEEP OUT OF REACH OF CHILDREN. DO NOT DISPOSE OF IN FIRE. RECHARGE, PUT IN BACKWARDS, DISASSEMBLE, OR MIX WITH OTHER BATTERY TYPES. MAY EXPLODE, FLAME OR LEAK AND CAUSE PERSONAL INJURY.

ORDERING INFORMATION

MODEL	DESCRIPTION
OCTVOLT-100MV	±100mV, Eight Channel Differential Voltage Data Logger
IFC200	Software, manual and USB interface cable
Calibration Certificate	Calibration Certificate available for data logger
U9VL-J	Replacement battery for OctVolt-100mV

ASK ABOUT
OUR OTHER
DATA
LOGGERS

Temperature
Humidity
Pressure
pH
Level
Shock
LCD Display
Pulse/Event/State
Current
Voltage
Wireless
Intrinsically Safe
Spectral Vibration
Motion

*To order the product with the certificate add -CERT to the end of the part number and add \$60.00 to the price.