

# OCTVOLT-100MV DIFFERENTIAL DC VOLTAGE DATA LOGGER



## Features

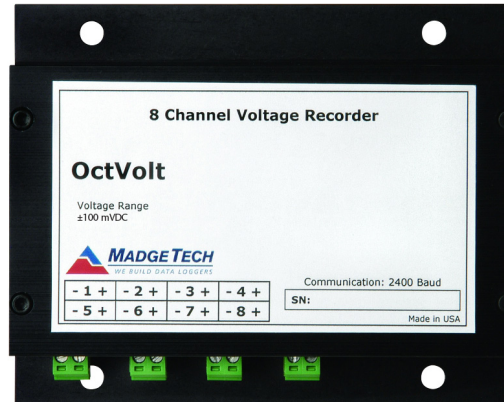
- Real-time Operation
- Programmable Engineering Units
- Low Cost
- Compact
- User-Friendly
- Programmable Start Time
- Reusable

## Benefits

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

## Applications

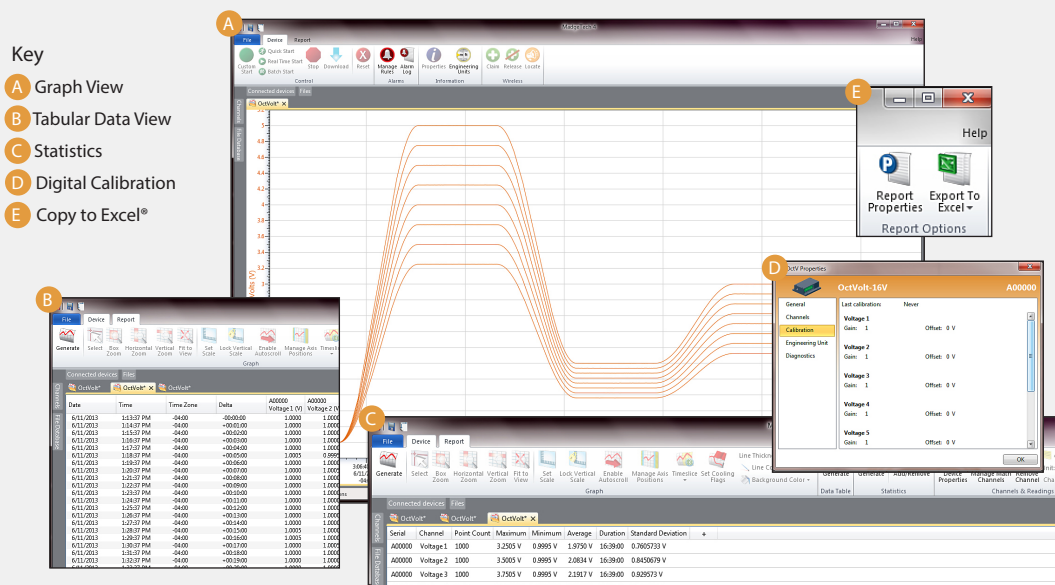
- Low Level Signal Monitoring
- Battery Studies
- Photovoltaic Studies
- Current Shunts
- General Purpose Voltage Recording



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



- ### 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\*

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

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"> <li>• Immediate start</li> <li>• Delay start up to 6 months</li> </ul>
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

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

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