

Device Maintenance

Battery Replacement

Materials:
3/32" HEX Driver (Allen Key)
Replacement Battery (U9VL-I)

- Remove the cover from the device by unscrewing the four screws.
- Remove the battery from its compartment and unsnap it from the connector.
- Snap the new battery into the terminals and verify it is secure.
- Replace the cover taking care not to pinch the wires. Screw the enclosure back together securely.

Note: Be sure not to over tighten the screws or strip the threads.

Battery Warning

WARNING: FIRE, EXPLOSION, AND SEVERE BURN HAZARD. DO NOT SHORT CIRCUIT, CHARGE, FORCE OVER DISCHARGE, DISASSEMBLE, CRUSH, PENETRATE OR INCINERATE. BATTERY MAY LEAK OR EXPLODE IF HEATED ABOVE 60°C (140°F).

Recalibration

The QuadVolt or OctVolt standard calibration depends on the range.

Range	2.5V	15V	30V
Calibration Point	0mV and 90-100mV	0mV and 2.25-2.5V	0mV and 27-30V

Pricing:

Recalibration traceable to NIST \$60.00
Recalibration \$40.00

Additional:

As Found Data \$15.00
Additional Points \$15.00 per point

To send the devices back, visit www.madgetech.com, select Services then RMA Process.

Part Number	QuadVolt	OctVolt
Voltage Range	*See Table Below	
Voltage Resolution		
Voltage Accuracy		
Memory	32,767/channel	16,383/channel
Sample Rate	1 second up to 12 hours	
LED Indicator	None	
Channels	4	8
Required Interface Package	IFC110 or IFC200	
Baud Rate	2,400	
Typical Battery Life	1 year	
Operating Environment	-40 to +60°C, 0 to 95%RH (non-condensing)	
Material	Anodized aluminum	
Dimensions	3.5" x 4.4" x 1.0" (89mm x 112mm x 26mm)	3.5" x 4.4" x 1.5" (89mm x 112mm x 39mm)
Approvals	CE - 100mV only	

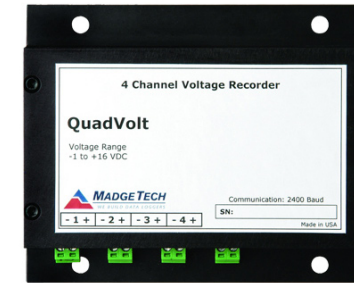
*QuadVolt & OctVolt Range, Resolution and Calibrated Accuracy

Nominal Range	±100mV	0 to 2.5V	0 to 15V	0 to 30V
Measurement Range (VDC)	±150mV	-0.25 to 2.75	-1 to 16	-2 to 32
Accuracy	±0.01%FSR	±0.01%FSR	±0.10%FSR	±0.10%FSR
Resolution (mV)	5µV	0.1	0.5	1.0
Common Mode Input Range	0 to 2.5V	0 to 2.5V	0 to 2.5V	0 to 2.5V

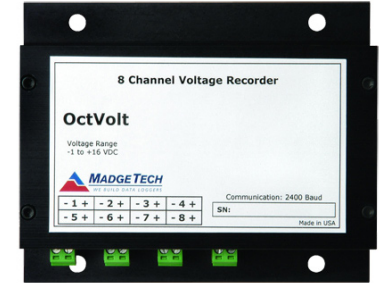
Specifications subject to change.

See MadgeTech's terms and conditions at www.madgetech.com

QuadVolt, and OctVolt



- QuadVolt-100mV
4-channel ±100mV Voltage Recorder
- QuadVolt-2.5V
4-channel 2.5V Voltage Recorder
- QuadVolt-15V
4-channel 15V Voltage Recorder
- QuadVolt-30V
4-channel 30V Voltage Recorder

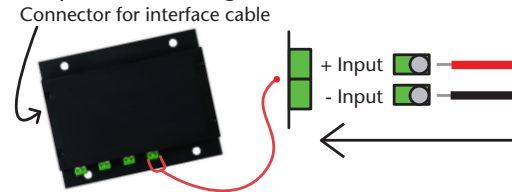


- OctVolt-100mV
8-channel ±100mV Voltage Recorder
- OctVolt-2.5V
8-channel 2.5V Voltage Recorder
- OctVolt-15V
8-channel 15V Voltage Recorder
- OctVolt-30V
8-channel 30V Voltage Recorder

Wiring the Data Logger

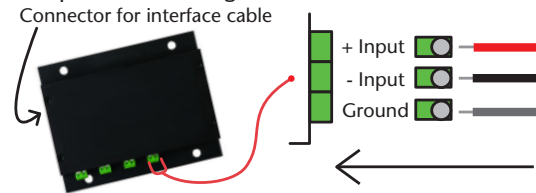
QuadVolt and OctVolt Single Ended Wiring

Four, two-position removable screw terminal connections; accepts 2-wire configurations.



QuadVolt and OctVolt Differential Wiring

Eight, two-position removable screw terminal connections; accepts 2-wire configurations.



Warning: Note the polarity instructions. Do not attach wires to the wrong terminals.

Product Notes

Engineering Units

Engineering units are used to convert one measurement reading to another. The MadgeTech software allows for software level Engineering Units (conversion applied to data after download). Certain devices have device level Engineering Units, which upon download automatically appear in the chosen unit of measure.

Please refer to the app note "Engineering Units", found on the MadgeTech website, for information on how to manage Engineering Units.

Installation Guide

Installing the Interface cable

- IFC200, IFC202 or IFC300
Refer to the "Quick Start Guide" included in the package.
- IFC110, IFC102 or IFC103
Plug the serial cable into the port and verify it is secure.
- USB-1 or USB-101
Install the USB drivers from the CD provided in the kit, then plug the USB cable into the computer and the serial cable into the serial port.

Installing the software

Insert the Software CD in the CD-ROM Drive. If the autorun does not appear, locate the drive on the computer and double click on **Autorun.exe**. Follow the instructions provided in the Wizard.

Connecting the data logger

- Once the software is installed and running, plug the interface cable into the data logger.
- Click the **Communication Menu**, then **Auto Configure Port**.
- After a moment, a box similar to the following will appear;



- Click **OK**. The **Device Status** box will appear. Click **OK**.
- At this point, communications have been configured for your logger. These settings can be found under the **Communication Menu**.

Note: For additional installation instructions refer to your "Data Logger & Software Operating Manual".

Device Operation

Starting the data logger

- Click **Device Menu** then **Start Device**.
- Choose the desired start method.
- Choose the start parameters by selecting a **Reading Rate** suitable for your application.
- Enter in any other desired parameters and click **Start**.
- A box will appear stating the data logger has been started. Click **OK**.



- Disconnect the data logger from the interface cable and place it in the environment to measure.

Note: The device will stop recording data when the end of memory is reached or the device is stopped. At this point the device cannot be restarted until it has been re-armed by the computer.

Downloading data from a data logger

- Connect the data logger to the interface cable.
- Click the **Device Menu** then **Read Device Data**. This will offload all recorded data onto the PC.

Technical Support

Visit www.madgetech.com, or call (603) 456-2011. Technical support is also available by e-mailing support@madgetech.com

Additional product information is available by e-mailing info@madgetech.com.