

VOLT X 16

VoltX16
16 Channels, 100MHz Bandwidth, 100MS/s Sample Rate

CHANNEL INPUTS

Channel	Input	Trigger
1	CH1	CH1
2	CH2	CH2
3	CH3	CH3
4	CH4	CH4
5	CH5	CH5
6	CH6	CH6
7	CH7	CH7
8	CH8	CH8
9	CH9	CH9
10	CH10	CH10
11	CH11	CH11
12	CH12	CH12
13	CH13	CH13
14	CH14	CH14
15	CH15	CH15
16	CH16	CH16

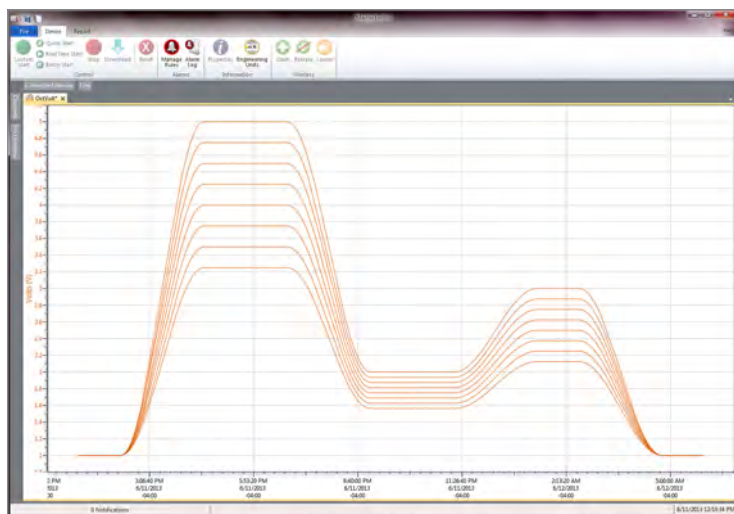
MARGETECH

Using the MadgeTech Software, starting, stopping and downloading from the VoltX Series data loggers are simple and easy. Graphical, tabular and statistical 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.

Features

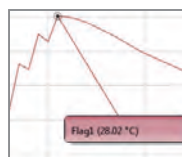
- Real-time Operation
- Programmable Engineering Units
- 24-bit Readings Provide High Resolution
- Up to 4 Hz Reading Rate
- Compact
- External Power or User Replaceable Battery
- Pushbutton or Programmable Start Time
- Title Channels
- Calibration Certificate included

MadgeTech 4 Software Features

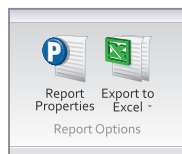


Graph View

- 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
- Summary view



Cooling Flags



Export to Excel

Time	Time Zone	Delta
13:37 PM	-0400	-00:00:00
13:37 PM	-0400	-00:01:00
13:37 PM	-0400	-00:02:00
13:37 PM	-0400	-00:03:00
13:37 PM	-0400	-00:04:00
13:37 PM	-0400	-00:05:00
13:37 PM	-0400	-00:06:00
13:37 PM	-0400	-00:07:00
13:37 PM	-0400	-00:08:00
13:37 PM	-0400	-00:09:00
13:37 PM	-0400	-00:10:00
13:37 PM	-0400	-00:11:00

Tabular Data View



Automation

Benefits

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

Applications

- Low Level Signal Monitoring
- Medical/Pharmaceutical
- Battery Studies
- Power Supply Monitoring
- Process Plants
- Environmental Studies
- Research and Development
- Replace Costly Strip Chart Recorders

SPECIFICATIONS

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

MEASUREMENT			
Input Connection	Removable screw terminals		
Model	160 mV	3.2 V	32 V
Voltage Range	±160 mV	±3.2 V	-8 V to +32 V
Voltage Resolution	0.02 mV	0.0004 mV	0.004 mV
Calibrated Accuracy	±0.032 mV	±0.0032 V	±0.02 V
Input Impedance	1 MΩ	125 kΩ	125 kΩ
Maximum Voltage between Inputs and Ground	+3 V	+50 V	+50 V
Analog Conversion Time	150 ms		
Frequency Rejection	60+50 Hz		
Temperature Coefficient	25 ppm/°C		
Specified Accuracy Range	Nominal range @ 25 °C		
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, CO ₂ , flow rate and more.		

GENERAL	
Start Modes	Software programmable immediate start or delay start up to six months in advance
Real Time Recording	May be used with PC to monitor and record data in real time
Memory (all channels enabled)	4-channel: 698,709 readings per channel 8-channel: 349,354 readings per channel 12-channel: 232,903 readings per channel 16-channel: 174,677 readings per channel

LEDs	1 per channel and 2 status LEDs
Reading Rate	4 Hz up to 1 reading every 24 hours
Calibration	Digital calibration through software
Calibration Date	Automatically recorded within device
Battery Type	9 V lithium battery included, user replaceable
Battery Life	18 months typical
Data Format	Date and time stamped V, mV, μV, engineering units specified through software
Time Accuracy	±1 minute/month
Computer Interface	USB-A to micro USB cable (included); 460,800 baud
Operating System Compatibility	Windows XP SP3 or later
Software Compatibility	Standard Software version 4.2.19.0 or later Secure Software version 4.2.18.0 or later
Operating Environment	-20 °C to +60 °C (-4 °F to +140 °F), 0 %RH to 95 %RH non-condensing
Dimensions	4-channel: 2.70 in x 7.25 in x 1.22 in (65.6 mm x 184.2 mm x 31.0 mm) 8-channel: 2.70 in x 7.25 in x 1.22 in (65.6 mm x 184.2 mm x 31.0 mm) 12-channel: 2.70 in x 7.25 in x 1.68 in (65.6 mm x 184.2 mm x 42.7 mm) 16-channel: 2.70 in x 7.25 in x 2.14 in (65.6 mm x 184.2 mm x 54.4 mm)
Material	Black anodized aluminum
Weight	4-channel: 13 oz (368 g) 8-channel: 13 oz (368 g) 12-channel: 20 oz (580 g) 16-channel: 28 oz (800 g)
Approvals	CE

BATTERY WARNING: BATTERY MAY LEAK, FLAME OR EXPLODE IF DISASSEMBLED, SHORTED, CHARGED, CONNECTED TOGETHER, MIXED WITH USED OR OTHER BATTERIES, EXPOSED TO FIRE OR HIGH TEMPERATURE. DISCARD USED BATTERY PROMPTLY. KEEP OUT OF REACH OF CHILDREN.

Ordering Information

VoltX4-160mV	PN 902179-00	4-Channel ±160 mV Voltage Data Logger, USB-A to micro USB cable, universal power adapter
VoltX4-3.2V	PN 902183-00	4-Channel ±3.2 V Voltage Data Logger, USB-A to micro USB cable, universal power adapter
VoltX4-32V	PN 902187-00	4-Channel -8 V to +32 V Voltage Data Logger, USB-A to micro USB cable, universal power adapter
VoltX8-160mV	PN 902180-00	8-Channel ±160 mV Voltage Data Logger, USB-A to micro USB cable, universal power adapter
VoltX8-3.2V	PN 902184-00	8-Channel ±3.2 V Voltage Data Logger, USB-A to micro USB cable, universal power adapter
VoltX8-32V	PN 902188-00	8-Channel -8 V to +32 V Voltage Data Logger, USB-A to micro USB cable, universal power adapter
VoltX12-160mV	PN 902181-00	12-Channel ±160 mV Voltage Data Logger, USB-A to micro USB cable, universal power adapter
VoltX12-3.2V	PN 902185-00	12-Channel ±3.2 V Voltage Data Logger, USB-A to micro USB cable, universal power adapter
VoltX12-32V	PN 902189-00	12-Channel -8 V to +32 V Voltage Data Logger, USB-A to micro USB cable, universal power adapter
VoltX16-160mV	PN 902182-00	16-Channel ±160 mV Voltage Data Logger, USB-A to micro USB cable, universal power adapter
VoltX16-3.2V	PN 902186-00	16-Channel ±3.2 V Voltage Data Logger, USB-A to micro USB cable, universal power adapter
VoltX16-32V	PN 902190-00	16-Channel -8 V to +32 V Voltage Data Logger, USB-A to micro USB cable, universal power adapter
U9VL-J	PN 901804-00	Replacement battery for VoltX Series

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