



## SPECIFICATIONS

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

MEASUREMENT			
<b>Input Connection</b>	Removable screw terminals		
<b>Model</b>	160 mV3.2 V		32 V
<b>Voltage Range</b>	±160 mV±3.2 V		-8 V to +32 V
<b>Voltage Resolution</b>	0.02 μV0.0004 mV ±0.032		0.004 mV
<b>Calibrated Accuracy</b>	mV±0.0032 V 1 MΩ125 kΩ		±0.02 V
<b>Input Impedance</b>			125 kΩ
<b>Maximum Voltage between Inputs and Ground</b>	+3 V	+50 V	+50 V
<b>Analog Conversion Time</b>	150 ms		
<b>Frequency Rejection</b>	60+50 Hz		
<b>Temperature Coefficient</b>	25 ppm/°C		
<b>Specified Accuracy Range</b>	Nominal range @ 25 °C		
<b>Engineering Units</b>	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.		
GENERAL			
<b>Start Modes</b>	Software programmable immediate start or delay start up to six months in advance		
<b>Real Time Recording</b>	May be used with PC to monitor and record data in real time		
<b>Memory</b>	4-channel: 698,709 readings 8-channel: 349,354 readings 12-channel: 232,903 readings 16-channel: 174,677 readings		

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

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

00 PN  
902182-00  
PN 902186-00 PN  
902190-00  
PN 901804-00