



## 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>Measurement Range</b>	2.5 V:-3 VDC to +3 VDC 15 V:-8 VDC to +24 VDC 30 V:-8 VDC to +32 VDC 160 mV:-160 mVDC to +160 mVDC
<b>Resolution</b>	2.5 VDC (0.1 mVDC) 15 VDC (0.5 mVDC) 30 VDC (1.0 mVDC) 160 mVDC (5 $\mu$ V)
<b>Calibrated Accuracy</b>	2.5 V: $\pm 0.05\%$ FSR at 25 °C (77 °F) 15 V: $\pm 0.05\%$ FSR at 25 °C (77 °F) 30 V: $\pm 0.05\%$ FSR at 25 °C (77 °F) 160 mV: $\pm 0.01\%$ FSR at 25 °C (77 °F)
<b>Response Time</b>	150 ms at sensor

WIRELESS	
<b>RF Frequency</b>	2.45 GHz IEEE 802.15.4 ultra-low power wireless transceiver with fully bi-directional communication
<b>Band</b>	ISM band 2.405-2.475 GHz
<b>Maximum Output Power</b>	+0 dBm typical
<b>Receiver Sensitivity (RFC1000)</b>	-95 dBm typical
<b>Transmission Distance (to data loggers)</b>	<b>RFC1000, RFC1000-CE &amp; RFC1000-IP69K</b> 2,000 ft max. outdoors - line of sight unobstructed 500 ft max. indoors - typical urban environment
<b>Transmission Distance (to other RFC1000's)</b>	<b>RFC1000</b> 4,000 ft max. outdoors - line of sight unobstructed 1,000 ft max. indoors - typical urban environment <b>RFC1000-CE</b> 2,500 ft max. outdoors - line of sight unobstructed 700 ft max. indoors - typical urban environment <b>RFC1000-IP69K</b> 4,000 ft max. outdoors - line of sight unobstructed 1,000 ft max. indoors - typical urban environment

**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>RFVolt2000A (2.5 VDC)</b>	PN 901460-00	Wireless Voltage 2.5 VDC data logger
<b>RFVolt2000A (15 VDC)</b>	PN 901450-00	Wireless Voltage 15 VDC data logger
<b>RFVolt2000A (30 VDC)</b>	PN 901465-00	Wireless Voltage 30 VDC data logger
<b>RFVolt2000A (160 mVDC)</b>	PN 901455-00	Wireless Voltage 160 mVDC data logger
<b>RFC1000</b>	PN 901383-00	Wireless RF receiver/repeater. USB to mini USB adapter & power supply included
<b>RFC1000-CE</b>	PN 901338-00	Wireless RF transceiver/repeater, CE approved for Europe. USB to mini USB adapter & power supply included
<b>RFC1000-IP69K</b>	PN 901389-00	Wireless RF transceiver/repeater, splash proof with an IP69K rating. USB to mini USB adapter included
<b>RFC1000 Cloud Relay</b>	PN 901900-00	MadgeTech Cloud Services Data Logging Hub
<b>RFC1000-CE Cloud Relay</b>	PN 901901-00	MadgeTech Cloud Services Data Logging Hub, CE approved for Europe
<b>Power Adapter</b>	PN 901839-00	Replacement USB universal power adapter
<b>U9VL-J</b>	PN 901804-00	Replacement battery for RFVolt2000A

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

**Countries approved for use, purchase and distribution of the RFVolt2000A:** Australia, Austria, Belgium, Bulgaria, Canada, Chile, China, Colombia, Croatia, Cyprus, Czech Republic, Denmark, Ecuador, Estonia, Finland, France, Germany, Greece, Honduras, Hungary, Iceland, Ireland, Israel, Japan, Latvia, Liechtenstein, Lithuania, Luxembourg, Malaysia, Malta, Mexico, New Zealand, Norway, Peru, Poland, Portugal, Romania, Saudi Arabia, Singapore, Slovakia, Slovenia, South Africa, South Korea, Spain, Sweden, Switzerland, Thailand, The Netherlands, Turkey, United Kingdom, United States, Venezuela, Vietnam



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GENERAL	
<b>Reading Rate</b>	1 reading every second up to 1 reading every 24 hours
<b>Memory</b>	32,2568 readings
<b>LED Functionality</b>	<b>Green LED</b> blinks every 5 seconds to indicate unit is logging <b>Blue LED</b> blinks every 15 seconds to indicate unit is in wireless mode <b>Red LED</b> blinks every 1 second to indicate alarm condition
<b>Wrap Around</b>	Yes
<b>Start Modes</b>	Immediate and delay start
<b>Calibration</b>	Digital calibration through software
<b>Calibration Date</b>	Automatically recorded within device
<b>Battery Type</b>	9 V lithium or alkaline battery included; user replaceable with any 9 V battery
<b>Battery Life</b>	Approximate 5 years typical for 15 minute reading rate
<b>Data Format</b>	<b>Display:</b> Pulses / 5 sec <b>Software:</b> Date and time stamped
<b>Time Accuracy</b>	$\pm 1$ minute/month
<b>Computer Interface</b>	USB to mini USB, 250,000 baud for standalone operation or RFC1000 required for wireless operation
<b>Operating System Compatibility</b>	Windows XP SP3 or later
<b>Software Compatibility</b>	Standard Software version 4.1.8.0 or later Secure Software version 4.1.7.0 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>	3.5 in x 3.17 in x 0.95 in (88.9 mm x 80.5 mm x 24.1 mm) - Data logger only
<b>Material</b>	ABS Plastic
<b>Weight</b>	4.4 oz (125 g)
<b>Approvals</b>	US (FCC), CA (IC), CE, South Korea (KCC), China (CMIIT), Japan (LCIE)
<b>Alarm</b>	User configurable high and low audible, on-screen, email and text (SMS) alarms. Alarm Delay: A cumulative alarm delay may be set in which the device will activate the alarm (via LED) only when the device has recorded a user specified time duration of data.
<b>Audible Alarm Functionality</b>	1 Beep per second for reading alarm above/below threshold