

SPECIFICATIONS

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

| TEMPERATURE | |
|---------------------|--|
| Temperature Range | -20 °C to +60 °C (-4 °F to +140 °F) |
| Resolution | 0.01 °C (0.018 °F) |
| Calibrated Accuracy | ±0.5 °C at 0 °C to +55 °C (± 0.9 °F at 32 °F to 131 °F) |
| Response Time | t63 - 302 seconds to 63% of change t90 - 710 seconds to 90% of change |

| HUMIDITY | |
|--------------------------|---|
| Humidity Range | 0 %RH to 95 %RH non-condensing |
| Resolution | 0.1 %RH |
| Calibrated Accuracy | ±3 %RH |
| Specified Accuracy Range | 25 %RH to 75 %RH +20 °C to +40 °C Hysteresis Error 1 % typical, 3 % Maximum |
| Response Time | t63 - 302 seconds to 63% of change t90 - 710 seconds to 90% of change |

| PRESSURE | |
|---------------------|--------------------------|
| Measurement Range | 260 mbar to 1260 mbar |
| Resolution | 0.02 mbar |
| Calibrated Accuracy | ±10 mbar (0 °C to 55 °C) |

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

| GENERAL | |
|--------------------------------|---|
| Reading Rate | 1 reading every second up to 1 reading every 24 hours |
| Memory | 10,752 readings |
| LED Functionality | Green LED blinks every 5 seconds to indicate unit is logging Blue LED blinks every 15 seconds to indicate unit is in wireless mode Red LED blinks every 1 second to indicate alarm condition |
| Wrap Around | Yes |
| Start Modes | Immediate and delay start |
| Calibration | Digital calibration through software |
| Calibration Date | Automatically recorded within device |
| Battery Type | 9 V lithium or alkaline battery included; user replaceable with any 9 V battery |
| Battery Life | Approximate 5 years typical at 15 minute reading rate |
| Data Format | Display: °C or °F, %RH, mbar Software: Date and time stamped °C, K, °F, or °R, %RH, mg/mL, Dew Point - °C / K / °F / °R, mbar, PSI, inHg, mmHg, atm, Torr, Pa, m, kPa, MPa |
| Time Accuracy | ± 1 minute/month @ 25 °C |
| Computer Interface | USB to mini USB, 250,000 baud for standalone operation or RFC1000 required for wireless operation |
| Operating System Compatibility | Windows XP SP3 or later |
| Software Compatibility | Standard Software version 4.1.10.0 or later Secure Software version 4.1.9.0 or later |
| Operating Environment | -20 °C to +60 °C (-4 °F to +140 °F), 0 %RH to 95 %RH non-condensing 0.002 PSIA to 100 PSIA |
| Dimensions | 3.5 in x 3.0 in x 0.95 in (88.9 mm x 76.2 mm x 24.1 mm) - Data logger only |
| Material | ABS Plastic |
| Weight | 4.9 oz (140 g) |
| Approvals | US (FCC), CA (IC), CE, South Korea (KCC), China (CMIIT), Japan (LCIE) |
| Alarm | 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. |
| Audible Alarm Functionality | 1 Beep per second for reading alarm above/below threshold |

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

| | | |
|------------------------|--------------|---|
| RFPRHTemp2000A | PN 901415-00 | Wireless Pressure, Humidity and Temperature data logger |
| RFC1000 | PN 901383-00 | Wireless RF receiver/repeater. USB to mini USB adapter & power supply included |
| RFC1000-CE | PN 901338-00 | Wireless RF transceiver/repeater, CE approved for Europe. USB to mini USB adapter & power supply included |
| RFC1000-IP69K | PN 901389-00 | Wireless RF transceiver/repeater, splash proof with an IP69K rating. USB to mini USB adapter included |
| RFC1000 Cloud Relay | PN 901900-00 | MadgeTech Cloud Services Data Logging Hub |
| RFC1000-CE Cloud Relay | PN 901901-00 | MadgeTech Cloud Services Data Logging Hub, CE approved for Europe |
| Power Adapter | PN 901839-00 | Replacement USB universal power adapter |
| U9VL-J | PN 901804-00 | Replacement battery for RFPRHTemp2000A |