# QUADRTD
## 4 CHANNEL RTD TEMPERATURE DATA LOGGER
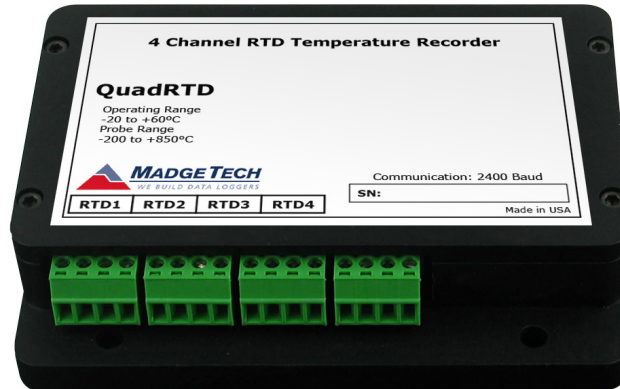
**MADGETECH**
WE BUILD DATA LOGGERS

### Features
- ±0.1 °C Calibrated Accuracy
- Real-time Operation
- Low Cost
- Programmable Start Time
- Reusable
- User-friendly
- Accepts 2, 3 and 4-wire RTD's

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

### Applications
- Calibration Chamber Monitoring
- Process Verification/Validation
- Warehouse Monitoring
- Precision Temperature Monitoring
- HVAC
- Clean Rooms
- Medical/Pharmaceutical
- Museum Monitoring
- Environmental Studies
- Replace Costly Strip Chart Recorders
- Implement HACCP Programs

The QuadRTD is a 4 channel, battery powered, stand alone, RTD based, precision temperature recorder. This is an all-in-one compact, portable, easy to use device that will measure and record up to 21,845 measurements per channel. The storage medium is non-volatile solid state memory, providing maximum data security even if the battery becomes discharged. The device can be started and stopped directly from your computer and its small size allows it to fit almost anywhere. The QuadRTD makes data retrieval quick and easy. Simply plug it into an empty COM or USB port and our user-friendly software does the rest.

## MADGETECH DATA LOGGER SOFTWARE

### Key
- **A** Graph View
- **B** Tabular Data View
- **C** Statistics
- **D** Digital Calibration
- **E** Copy to Excel®

### Software Features:
- 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
- Data table view
- Automatic report generation
- Summary view
- Multilingual

# QUADRTD SPECIFICATIONS*

Temperature**

| | |
|---|---|
| Measurement Range: | -200 ºC to +850 ºC |
| Resolution: | 0.01 ºC |
| ***Calibrated Accuracy: | ±0.1 @ 25 ºC ambient |
| Specified Accuracy Range: | -200 ºC to +850 ºC |

Resistance

| | |
|---|---|
| Nominal Range: | 0 Ω to 500 Ω |
| Resolution: | 0.001 Ω |
| ***Calibrated Accuracy: | ±0.03 Ω @ 25 ºC ambient |
| Specified Accuracy Range: | 0 Ω to 500 Ω |
| Channels: | 4 |
| Input Connection: | Removable screw terminal; 2, 3 or 4 wire interface |
| Temperature Effect on Span: | < 2.5 ppm/ºC; < 1.0 ppm/ºC typical |
| Start Modes: | Software programmable immediate start or delay start up to six months in advance |

**Temperature specifications based on ideal 100 Ω Pt RTD compliant with IEC 751 (1983) and ITS-90, 5000 Ω FSR (accuracy based on 36 in lead wire RTD with 4 wire configuration)

***Calibrated accuracies based on standard MadgeTech calibrations for 0 Ω to 200 Ω range.

| | |
|---|---|
| Real Time Recording: | May be used with PC to monitor and record data in real time |
| Memory: | 21,845 readings per channel for a total of 87380 readings |
| Reading Rate: | 1 reading every 2 seconds up to 1 reading every 12 hours |
| Calibration: | Digital calibration through software |
| Calibration Date: | Automatically recorded within device |
| Battery Type: | 9V lithium or alkaline battery included, user replaceable |
| Battery Life: | 1 year typical |
| Data Format: | Date and time stamped ºC, ºF, K, ºR; Ω |
| Time Accuracy: | ±1 minute/month (at 20 ºC, RS232 port not in use) |
| Computer Interface: | PC serial or USB (interface cable required); 2,400 baud |
| Software: | XP SP3/Vista/Windows 7/Windows 8 |
| Operating Environment: | -20 ºC to +60 ºC, 0 %RH to 95 %RH non-condensing |
| Dimensions: | 3.5 in x 4.4 in x 1.0 in (89 mm x 112 mm x 26 mm) |
| Weight: | 11.9 oz (335 g) |

*BATTERY WARNING: WARNING: FIRE, EXPLOSION, AND SEVERE BURN HAZARD. DO NOT SHORT CIRCUIT, CHARGE, FORCE OVER DISCHARGE, CRUSH, PENETRATE, OR INCINERATE. BATTERY MAY LEAK OR EXPLODE IF HEATED ABOVE 80 °C (176 °F).*

*SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE. SPECIFIC WARRANTY REMEDY LIMITATIONS APPLY. CALL 1-603-456-2011 OR GO TO WWW.MADGETECH.COM FOR DETAILS.*

# ORDERING INFORMATION

| MODEL | DESCRIPTION |
|---|---|
| QUADRTD | 4 Channel RTD Temperature Recorder |
| IFC200 | Software, manual and USB interface cable |
| Calibration Certificate | Calibration Certificate available for data logger |
| Calibration Certificate | Calibration Certificate available for data logger |
| U9VL-J | Replacement battery for QuadRTD |

ASK ABOUT OUR OTHER DATA LOGGERS

Temperature
Humidity
Pressure
pH
Level
Shock
LCD Display
Pulse/Event/State
Current
Voltage
Wireless
Intrinsically Safe
Spectral Vibration
Motion

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