

# QUADTEMP

## 4 CHANNEL THERMOCOUPLE DATA LOGGER



### Features

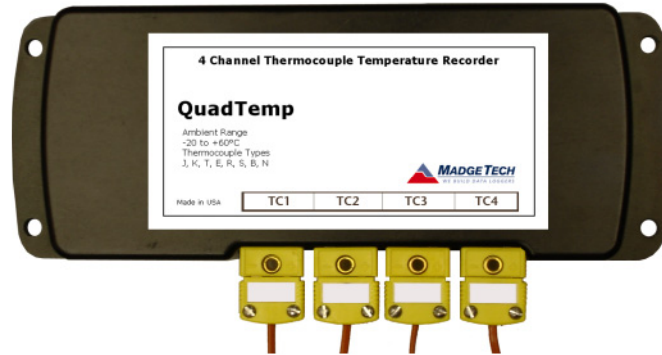
- 4Hz Reading Rate
- 500,000 Readings Per Channel
- Open Channel Detection
- Title Channels
- Accepts Thermocouple Types J, K, T, E, R, S, B, N
- External Power or User Replaceable Battery
- Pushbutton or Programmable Start

### Benefits

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

### Applications

- Warehouse Monitoring
- Refrigerator Monitoring
- Medical and Pharmaceutical
- Oven Monitoring
- Smoke Houses
- Food Processing
- HVAC
- Engine Studies

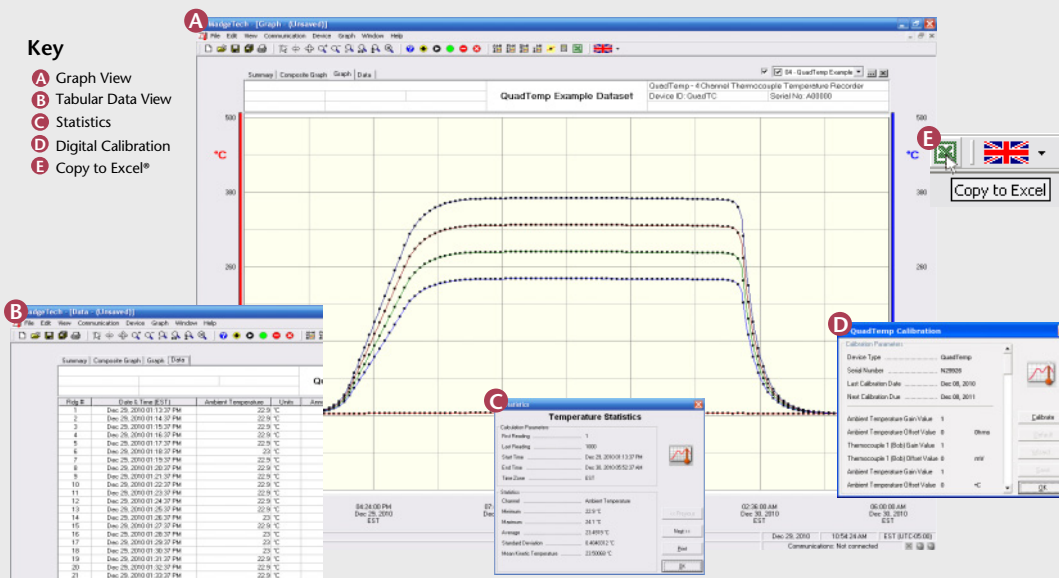


The QuadTemp is a four channel thermocouple data logger with a reading rate of up to 4Hz. It can measure and record 500,000 readings per channel. To maximize memory capacity, users can enable or disable channels. For easy identification, each channel can be named with up to a ten digit title.

In addition, the QuadTemp features individual cold junction compensation for each channel providing increased accuracy and response time, and if a probe is removed or severed during logging, the software automatically annotates the data.

The QuadTemp is ideal for a variety of applications, whether it is remote temperature monitoring, or multiple points in a central location. Data from all channels is simultaneously logged. After the monitoring cycle is complete, data can be downloaded for analysis.

## MADGETECH DATA LOGGER SOFTWARE



- ### Software Features:
- Multiple graph overlay
  - Statistics
  - Digital calibration
  - Zoom in/ zoom out
  - Lethality equations (F<sub>0</sub>, PU)
  - Mean Kinetic Temperature
  - Full time zone support
  - Data annotation
  - Min./Max./Average lines
  - Data table view
  - Automatic report generation
  - Summary view
  - Multilingual

# QUADTEMP SPECIFICATIONS\*

## Internal Channel

Temperature Range: -20 to +60°C

Temperature Resolution: 0.05°C

Calibrated Accuracy: ±0.5°C (0 to +50°C)

## 4 Remote Channels

Remote Channel Thermocouple Types: J, K, T, E, R, S, B, N

Thermocouple connection: Female subminiature (SMP)

Cold Junction Compensation: Automatic, based on internal channel

Maximum Thermocouple Resistance: 1000Ω, <1000Ω recommended

Thermocouple	Range (°C)	Resolution	Accuracy
J	-210 to +760	0.1 °C	±0.5 °C
K	-270 to +1370	0.1 °C	±0.5 °C
T	-270 to +400	0.1 °C	±0.5 °C
E	-270 to +980	0.1 °C	±0.5 °C
R	-50 to +1760	0.5 °C	±2.0 °C
S	-50 to +1760	0.5 °C	±2.0 °C
B	+50 to +1820	0.5 °C	±2.0 °C
N	-270 to +1300	0.1 °C	±0.5 °C

**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:** 500,000 readings per channel, channels can be disabled to increase memory

**Reading Rate:** 4 readings per second up to 1 every 24 hours

**Calibration:** Digital calibration through software

**Calibration Date:** Automatically recorded within device

**Battery Type:** 9 Volt lithium or alkaline battery included, **user replaceable**

**Battery Life:** 18 months typical

**Data Format:** Date and time stamped °C, °F, K, °R, mV, V

**Time Accuracy:** ±1 minute/month

**Computer Interface:** USB (Interface cable required); 115,200 baud

**Software:** XP SP3/Vista/Windows 7

**Operating Environment:** -20 to +60°C, 0 to 95%RH non-condensing

**Dimensions:** 7.24" x 2.7" x 1.02" (183mm x 68mm x 26mm)

**Material:** Black anodized aluminum

**Weight:** 15.2 oz (430 g)

**Approvals:** CE

**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	PRICE (U.S.)
QUADTEMP	4 Channel Thermocouple Recorder	\$599.00
IFC200	Software, manual and USB interface cable	\$119.00
*NIST	N.I.S.T. Calibration Certificate	\$60.00
U9VL-J	Replacement battery for QuadTemp	\$15.00

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

\*To order the product with the N.I.S.T. certificate add *-CERT* to the end of the part number and add \$60.00 to the price.

ASK ABOUT  
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DATA  
LOGGERS

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