MADGETECH
WE BUILD DATA LOGGERS

Features

- Large, backlit LCD display
- Front keypad w/lock feature
- High speed download
- Real-time operation
- User-selectable measurement units
- N.I.S.T. traceable calibration
- Min./max. & average statistics
- Programmable start/stop time
- Convenient status indicators
- User replaceable battery and external power
- Wall mountable

Applications

- Precision Temperature Recording
- Calibration chamber monitoring
- Warehouse monitoring
- HVAC
- Medical/Pharmaceutical
- Museum monitoring
- Environmental studies
- Replace costly strip chart recorders
- Implement HACCP programs

The RTDTemp2000 is a battery powered precision RTD temperature recorder, with a LCD display. It is perfect for applications requiring precise temperature readings.
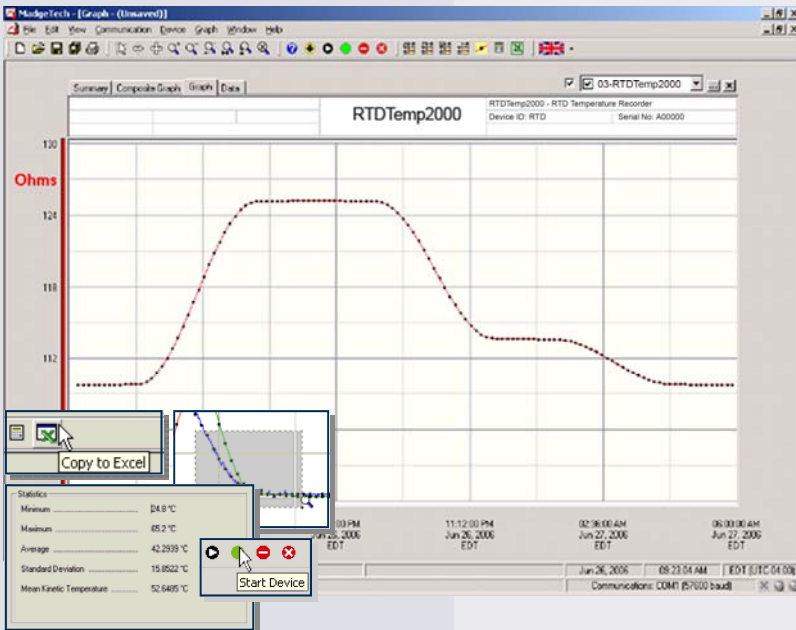
The 8-button keypad and large LCD provide convenient access to current data and recorder setup. Additionally, memory and battery levels, external power status, and sampling and recording status are shown on the LCD.

Available on-screen data includes: statistics (min, max, average); recording status (start, stop and recording rate); display options (units, text size); and calibration information (date calibrated, date for recalibration). Statistics can be cleared at any time during logging.

With 174,762 readings, the RTD2000 has one of the largest memory capacities of any similar data recorder on the market. The non-volatile memory will retain recorded data, even if AC and battery power are lost.

The RTDTemp2000 runs on a 9V battery with a typical battery life of 1 year at a 1 min reading rate with the display off. With continuous LCD and no backlight usage, the average battery life is 30 days. For power savings, both the LCD and backlight have configurable auto-off options. Those wanting to keep the LCD display and backlight continuously active need only to connect the unit to an AC power supply, keeping the 9V battery connected as a back-up.

N.I.S.T. traceable calibration is available for users needing to meet regulatory requirements. Creating permanent records, performing data calculations, and the graphing of data is quick and easy: Simply connect the interface cable to an available USB or serial port and, with a few clicks of the mouse, data is downloaded and ready for review or export to Excel®.

MadgeTech Data Recorder Software
displays temperature data in an easy to use graph.

The Windows®-based software package allows the user to effortlessly collect, display and analyze data. A variety of powerful tools allow you to examine, export, and print professional looking data with just a click of the mouse.

Click MadgeTech Software for more information or to download the software.

RTDTEMP2000 SPECIFICATIONS*

PROBE TEMPERATURE

Measurement Range: -200 to +850°C

Resolution: 0.01°C

Probe Calibrated Accuracy: ±0.05°C (-200 to +260°C)
±0.3°C (+260 to +850°C)

Specified Accuracy Range: -200 to +850°C

DOT-MATRIX LCD

Dimensions: 2.5" x 1.375 (63mm x 35mm)

Text: Configurable channel text size

Indicators: Power, status, memory

Backlight: Configurable w/auto shut-off and contrast adjustment

Start/Stop Time: Software programmable start time and date, up to six months in advance; programmable stop time

Memory: 174,762 total readings; software configurable memory wrap

Reading Rate: 1 reading every 2 seconds to 1 every 24 hours

Calibration: Digital calibration through software

Calibration Date: Automatically recorded within device

Battery Type: 9V lithium battery included, **user replaceable**; optional AC adapter

Battery Life: 1 year battery life at 1 min reading rate with display off. 30 days typical with continuous LCD and no backlight usage.

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

Time Accuracy: ±1 minute/month (at 20° to 30°C)

Computer Interface: PC serial or USB (interface cable required); 115,200

Software: Windows 95/98/ME/NT/2000/XP based software

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

Dimensions: 4.8" x 3.3" x 1.25" (122mm x 84mm x 32mm)

Weight: 16 oz (440 g)

Enclosure: Black anodized aluminum

SOFTWARE FEATURES

Multiple Graphs: Simultaneously analyze data from several units or deployments; easily switch to a single data series

Real-Time Recording: Collect and display data in real-time while continuing to log

Graphical Cursor: One click displays readings by time, value, parameter or sample number

Data Table: Instantly access tabular view for detailed dates, times, values, and annotations

Scaling Options: Autoscale function fits data to the screen, or allows user to manually enter their own values

Formatting Options: Change colors, line styles, plotting options, show or hide channels quickly

Statistics: Calculate averages, min, max, standard deviation, and mean kinetic temperature with the touch of a button

Export Data: Export data in a variety of common formats, or switch to Excel® with a single click

Calibration: Automatically calculate and store calibration parameters

Logger Configuration: Easy set up and launch of data loggers with immediate or delayed start, preferred sample rate, and device ID

Communications: Automatically sets up communications port, or lets user select configuration

Printing: Automatically print graphical or tabular data

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

ORDERING INFORMATION

Model	Description	Price (U.S.)
RTDTemp2000	Precision RTD Recorder w/LCD Display	$499.00
IFC110	Software, manual and RS232 interface cable	$99.00
IFC200	Software, manual and USB interface cable	$119.00
NIST	N.I.S.T. Calibration Certificate	Call for Pricing
U9VL-J	Replacement battery for RTDTemp2000	$15.00
DC9V-NA	9 Volt AC wall mounted Adapter (North American version)	$13.00
DC9V-EU	9 Volt AC wall mounted Adapter (European version)	$13.00

ASK ABOUT OUR OTHER DATA RECORDERS

Temperature	Pulse/Event/State
Humidity	Low Level Current
Pressure	Low Level Voltage
pH	RF Transmitters
Level	Intrinsically Safe
Shock	Spectral Vibration

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

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