

Features

- Large backlit LCD display
- Front keypad w/lock feature
- User-selectable measurement units
- Simultaneous display of temperature, humidity and pressure
- 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

- Laboratory monitoring
- Warehouse monitoring
- Museum monitoring
- HVAC applications
- Medical and pharmaceutical facility monitoring
- Environmental studies
- HACCP program implementation
- Food storage
- Live cargo transport

The PRHTemp2000 is perfect for applications requiring instant remote readings of environmental parameters, including temperature, humidity and atmospheric pressure.

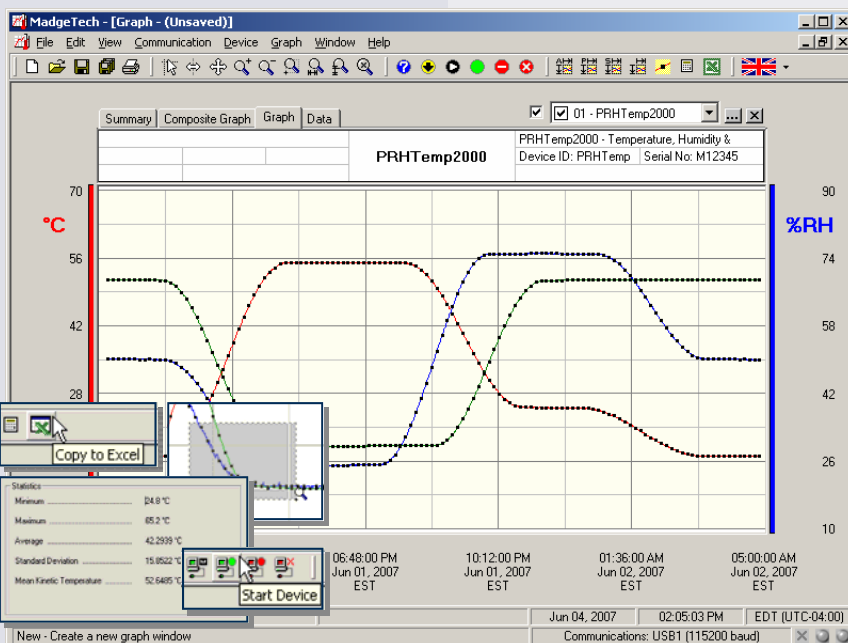
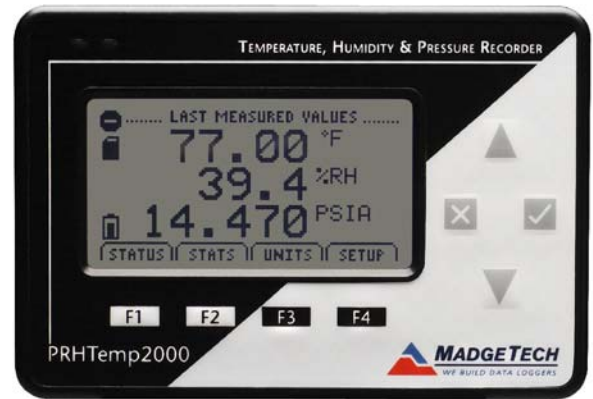
The 8-button keypad and large LCD provide convenient access to current data and recorder setup. Additionally, memory and battery levels, external power status, sampling and recording status are shown on the LCD.

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

With 87,381 readings per channel, the PRHTemp2000 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 PRHTemp2000 typically runs up to one month on a user-replaceable 9V battery (at a 1-minute reading rate with continuous LCD usage and no backlight). For further 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 plug 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 pressure, humidity and 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.

PRHTEMP2000 SPECIFICATIONS*

TEMPERATURE

Range: -20 to +60°C

Resolution: 0.1°C

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

HUMIDITY

Range: 0 to 95%RH

Resolution: 0.1%RH

Calibrated Accuracy: ±3%RH (±2%RH typical at 25°C)

Specified Accuracy Range: +10 to +40°C, 10 to 80%RH

PRESSURE

Range: 0 to 30PSIA

Resolution: 0.002PSIA

Calibrated Accuracy: ±1.0%FSR at 25°C; ±0.2% typical

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: 87,381 readings per channel for a total of 262,143 total readings; software configurable memory wrap

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

Calibration: Digital calibration through software

Calibration Date: Automatically recorded within device

Power: 9V lithium battery included; optional AC adapter

User Replaceable Battery: 30 days typical battery life

Data Format: Date and time stamped °C, °F, K, °R ; %RH, mg/ml water vapor concentration, dew point; PSIA, inHg, mmHg, bar, atm, Torr, Pa, kPa, MPa

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

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

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

Operating Environment: -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

BATTERY WARNING
CAUTION: MAY LEAK AND/OR FLAME IF OPENED, RECHARGED, CONNECTED IMPROPERLY, OR DISPOSED OF IN FIRE.

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

<u>Model</u>	<u>Description</u>
PRHTEMP2000	Pressure, Humidity and Temperature Recorder w/LCD Display
IFC110	Software, manual and RS232 interface cable
IFC200	Software, manual and USB interface cable
NIST	N.I.S.T. Calibration Certificate
U9VL-J	Replacement battery for PRHTemp2000

Call for Options and Pricing

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