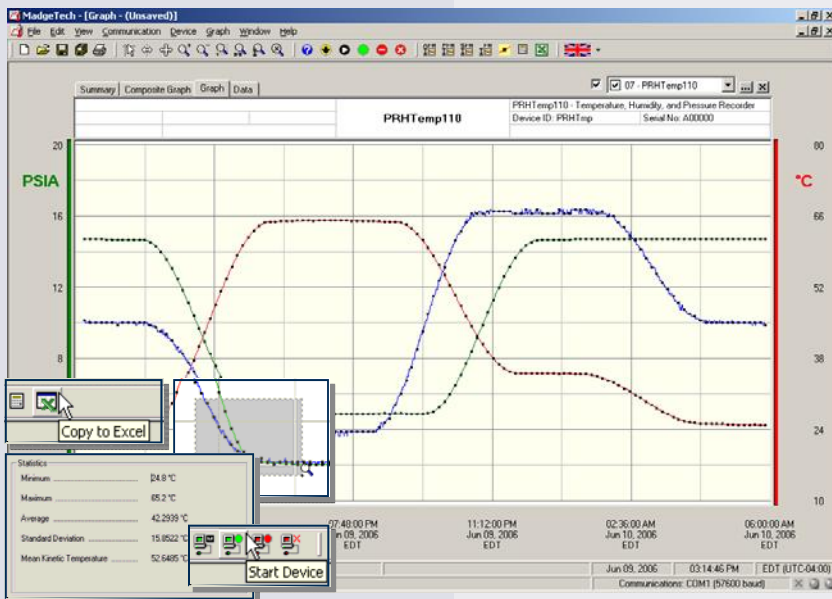## Features

- ③ 10 year battery life
- ③ High speed download
- ③ N.I.S.T. traceable
- ③ Real-time operation
- ③ Low cost
- ③ Programmable start time
- ③ Reusable
- ③ Miniature size
- ③ User-friendly
- ③ CE compliant

Applications

- ③ Shipping live cargo
- ③ Altitude validation
- ③ Remote data logging
- ③ Warehouse monitoring
- ③ HVAC
- ③ Medical and Pharmaceutical
- ③ Museum monitoring
- ③ Environmental studies
- ③ Food storage
- ③ Implement HACCP programs

Pressure, Humidity & Temperature Recorder

PRHTemp110

Range
-40ºC to +80ºC
0 to 95 %RH
0 to 30 PSIA

CE

MADGETECH

The PRHTemp110 is a miniature, battery powered, stand alone pressure, humidity and temperature recorder. The PRHTemp110 features a real-time clock module that extends the battery life to > 10 years and allows for high speed downloads. This is an all-in-one compact, portable, easy to use device that will measure and record up to 13,107 measurements. 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 it's small size allows it to fit almost anywhere. The PRHTemp110 makes data retrieval quick and easy. Simply plug it into an empty COM or USB port and our user-friendly software does the rest.

Data Recorder Software reports 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.

PRHTEMP110 SPECIFICATIONS*

Temperature Range: -40 to +80°C

Temperature Resolution: 0.1°C

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

Humidity Range: 0 to 95%RH

Humidity Resolution: 0.5%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

Pressure Resolution: 0.002PSIA

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

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: 13,107 readings per channel; 39,321 total readings; software configurable memory wrap

Reading Rate: 1 reading every 2 seconds to 1 every 12 hours

Calibration: Digital calibration through software

Calibration Date: Automatically recorded within device

Battery Type: 3.6V lithium battery included; user replaceable

Battery Life: 10 years (15 minute reading rate, 25°C)

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

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

Computer Interface: PC serial or USB (interface cable required); 57,600 baud

Software: XP SP3/VIsta/Windows 7

Operating Environment: -40 to +80°C, 0 to 95%RH non-condensing

Dimensions: 1.7" x 2.3" x 0.9" (44mm x 59mm x 23mm)

Weight: 2 oz (60 g)

Approvals: CE, Approved for carriage on Delta® mainline flights

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.

ORDERING INFORMATION

Model	Description	Price (U.S.)
PRHTEMP110	Pressure, Humidity and Temperature Recorder	$399.00
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
LTC-7PN	Replacement battery for PRHTemp110	$ 10.00

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
LCD Display	