PRHTemp101
Pressure, Humidity & Temperature Recoder

FEATURES

- ❖ N.I.S.T. traceable
- ❖ Real-time operation
- ❖ Low cost
- ❖ Programmable start time
- ❖ Reusable
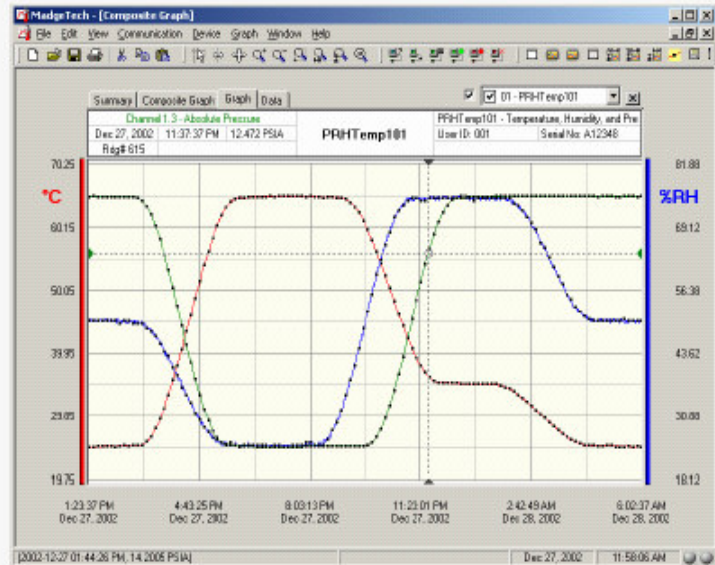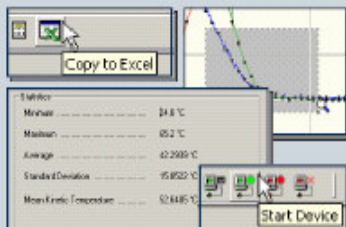- ❖ Miniature size
- ❖ User-friendly

APPLICATIONS

- ❖ Warehouse monitoring
- ❖ HVAC
- ❖ Medical/Pharmaceutical
- ❖ Museum monitoring
- ❖ Environmental studies
- ❖ Replace costly strip chart recorders
- ❖ Implement HACCP programs
- ❖ Research and Development

The PRHTEMP101 is a miniature, battery powered, stand alone pressure, humidity and temperature recorder. This is an all-in-one compact, portable, easy to use device that will measure and record up to 6,553 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 it's small size allows it to fit almost anywhere. The PRHTEMP101 makes data retrieval quick and easy. Simply plug it into an empty com port and our user-friendly software does the rest.

SOFTWARE

MadgeTech's Data Recorder Software is an easy to use Windows-based software package that 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.

PRHTEMP101 SPECIFICATIONS

Temperature Range:	-40 °C to +80 °C
Temperature Resolution:	0.1 °C
Calibrated Accuracy:	±0.5 °C(0 to +50°C)
Humidity Range:	0 to 100% RH
Humidity Resolution:	0.5% RH
Calibrated Accuracy:	±3%RH (±2% RH typical at 25 °C)
Pressure Range:	0 to 30 PSIA
Pressure Resolution:	0.002 PSIA
Calibrated Accuracy:	±1.0% FSR at 25 °C; ±0.2% typical
Start Time:	Software programmable start time and date. 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
Reading Interval:	1 reading every 5 seconds to 1 every 12 hours
Calibration:	Digital calibration through software
Calibration Date:	Automatically recorded within device
Power:	3.6V lithium battery included
User Replaceable Battery:	1 year typical
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 °C, RS232 cable not in use)
Computer Interface:	PC serial or RS232C COM (Interface cable required); 2,400 baud
Software:	Windows 95/98/ME/NT/2000/XP based software
Operating Environment:	-40 °C to +80 °C, 0 to 95 %RH non-condensing
Dimensions:	1.6" x 2.3" x 0.9" (41mm x 59mm x 22mm)
Weight:	2 oz (60 g)

PRHTEMP101 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 in an instant

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:	Fully digital calibration function automatically stores parameters in device
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 set configuration
Printing:	Automatically print graphical or tabular data

**As part of our commitment to continuous product improvement, MadgeTech reserves the right to change product specifications without notice

ORDERING INFORMATION

Model	Description
PRHTEMP101	Pressure, Humidity & Temperature Recorder
IFC101	Software, manual and 9-pin computer interface cable
N.I.S.T. Cert	N.I.S.T. Calibration Certificate

ASK ABOUT OUR OTHER DATA RECORDERS

Temperature	Voltage
Humidity	Current
Pressure	Submersible
pH	Intrinsically Safe
Level	RF Transmitters
Shock/Vibration	Multi-parameter
Pulse/Event	

PRHTemp110
Pressure, Humidity & Temperature Recoder

FEATURES

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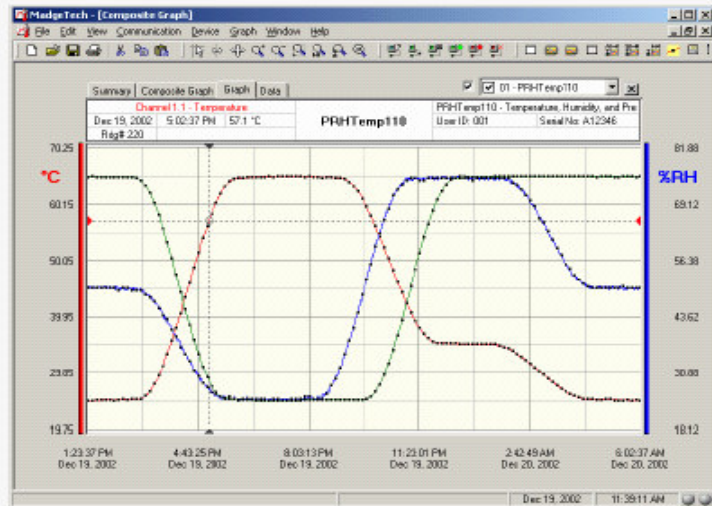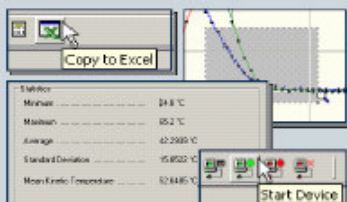- ✧ User-friendly

APPLICATIONS

- ✧ Remote data logging
- ✧ Warehouse monitoring
- ✧ HVAC
- ✧ Medical/Pharmaceutical
- ✧ Museum monitoring
- ✧ Environmental studies
- ✧ Replace costly strip chart recorders
- ✧ Implement HACCP programs

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 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 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 port and our user-friendly software does the rest.

SOFTWARE

MadgeTech's Data Recorder Software is an easy to use Windows-based software package that 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.

LATIN TECH INC

PRHTEMP110 SPECIFICATIONS

Temperature Range:	-40 °C to +80 °C	Memory:	13,107 readings per channel
Temperature Resolution:	0.1 ºC	Reading Interval:	1 reading every 2 seconds to 1 every 12 hours
Calibrated Accuracy:	±0.5 ºC(0 to +50ºC)	Calibration:	Digital Calibration through software
		Calibration Date:	Automatically recorded within device
Humidity Range:	0 to 100% RH	Power:	3.6V lithium battery included
Humidity Resolution:	0.5% RH	*User Replaceable Battery:	10 years (15 minute reading rate, 25 °C)
Calibrated Accuracy:	±3%RH (±2% RH typical at 25 ºC)	Data Format:	Date and time stamped ºC, ºF, ºK, ºR ; %RH, mg/ml water vapor concentration; PSIA, inHg, mmHg, bar, atm, Torr, Pa, kPa, MPa, altitude
Pressure Range:	0 to 30 PSIA		
Pressure Resolution:	0.002 PSIA	Time Accuracy:	±1 minute/month (at 20 ºC to 30 ºC)
Calibrated Accuracy:	±1.0% FSR at 25 ºC; ±0.2% typical	Computer Interface:	PC serial or RS232C COM (Interface cable required); 57,600 baud
Start Time:	Software programmable Start time and date. Up to six months in advance	Software:	Windows 95/98/ME/NT/2000/XP based software
		Operating Environment:	-40 ºC to +80 ºC, 0 to 95 %RH non-condensing
Real Time Recording:	May be used with PC to monitor and record data in real time	Dimensions:	1.61" x 2.26" x 0.76" (41mm x 58mm x 20mm)
		Weight:	2 oz (60 g)

SOFTWARE FEATURES

Multiple Graphs:	Simultaneously analyze data from several units or deployments; easily switch to a single data series	Statistics:	Calculate averages, min, max, standard deviation, and mean kinetic temperature with the touch of a button
Real-Time Recording:	Collect and display data in real-time while continuing to log	Export Data:	Export data in a variety of common formats, or switch to Excel with a single click
Graphical Cursor:	One click displays readings by time, value, parameter or sample number	Calibration:	Fully digital calibration function automatically stores parameters in device
Data Table:	Instantly access tabular view for detailed dates, times, values, and annotations	Logger Configuration:	Easy set up and launch of data loggers with immediate or delayed start, preferred sample rate, and device ID
Scaling Options:	Autoscale function fits data to the screen, or allows user to manually enter their own values	Communications:	Automatically sets up communications port, or lets user set configuration
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