



MONARCH INSTRUMENT

Innovation in Instrumentation

DataChart® PRTemp101

Miniature Temperature & Pressure Data Logger

Features

- Pressure Range: 0 psia to 30 psia
- Temperature Range: -40°C to +80°C
- Memory: 8,191 pressure and 8,191 temperature readings
- Programmable Start Time
- 0.001 PSIA resolution
- Reusable
- Miniature Size
- N.I.S.T. Traceable
- User Calibration through Software
- No Programming experience necessary
- Real Time Operation
- Low Cost
- Operational in Minutes
- Record Keeping Simplified

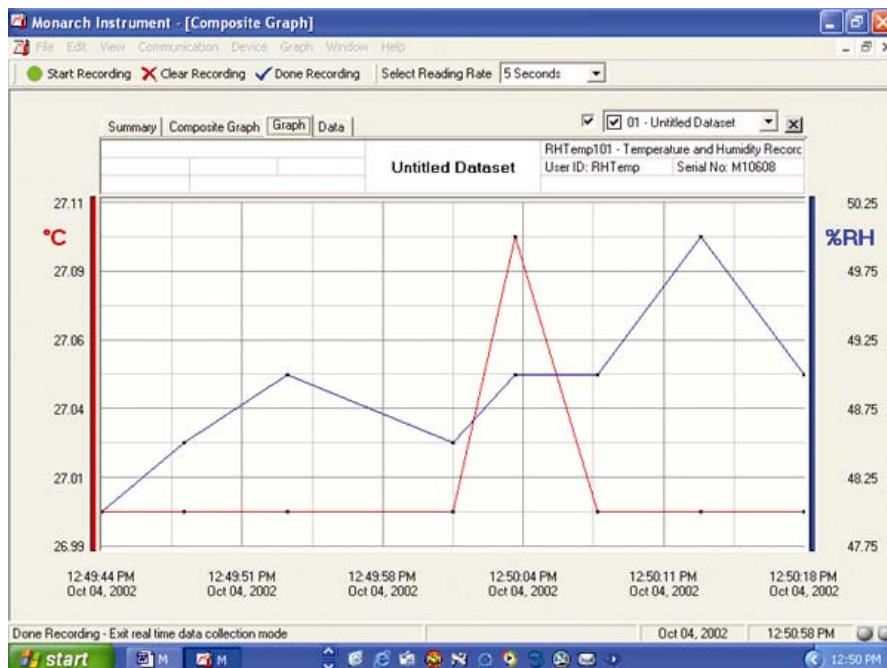
Applications

- Barometry
- Altitude Recording
- Pneumatics
- Medical Instrumentation
- Environmental Studies
- Replace Costly Strip Chart Recorders



Description

The PRTemp101 is a miniature, battery powered, stand-alone, temperature and humidity recorder. This all-in-one compact, portable, easy to use device will measure and record up to 8,191 humidity and 8,191 temperature measurements. The PRTemp101 is a major leap forward in both size and performance. Its real time clock ensures that all data is time and date stamped. The storage medium is non-volatile solid state memory, providing maximum data security even if the battery becomes discharged. Its small size allows it to fit almost anywhere. Data retrieval is simple. Plug it into an empty com port and our easy to use software does the rest.



Sample Windows Software Screen

Specifications

Temperature Measurement Range: 0°C to +80°C

Temperature Accuracy: 0.5°C

Temperature Resolution: 0.1°C

Pressure Range: 0 psia to 30 psia

Pressure Accuracy: 2% FSR

Pressure Resolution: 0.0001 psia

Temperature & Pressure Calibration: Digital calibration is available through software.

N.I.S.T. Traceable: N.I.S.T. certificates available

Calibration Date: Automatically recorded within device to alert user when calibration is required.

Recording Interval: 30/minute to 1/day selectable through software.

Start Time: Start time and date are programmable through software.

Real Time Recording: Device may be used with PC to monitor and record data in real time.

Alarm Indicator: LED flashes at selected reading rate or at 1 sec. rate under alarm condition.

Memory: 8,191 temperature readings and 8,191 pressure readings max.

User-Replaceable Battery: 1 year typical.

Data Format: Date and Time stamped, psia, inches, mmHg, kPascals, Torr, Barr, Feet, °C, °F, °K, °R.

Shock resistance: Drop proof to 5'.

Weight: 1 oz. (30g)

Computer Interface: RS232C Serial Port

Software: Windows®95/98/NT/2000/XP based software for complete control and operation.

Operating Environment: -40°C to + 80°C; 5% to 95% RH (non-condensing).

Dimensions: 0.9" x 1.4" x 2.2" (22mm x 35mm x 55mm)

Material: ABS Plastic

Software Features

The software used to operate the PRTemp 101 requires no programming skills. It enables users to effortlessly select reading rate, user ID and initiate the start of data collection within moments after user connects hardware. After retrieving the data, it may be viewed instantly in graphical or tabular form.

Zoom In/Out: Use mouse to click and drag to select area for zooming in or out.

Statistics: min, max, mean, mean kinetic temperature, standard deviation

Cursor: Use mouse to click on graph to obtain specific reading information.

Programmable Start Time: Program start time and date through software.

Real Time Operation: Convert PC into strip chart recorder for real time data collection.

Annotating Data: All data points may be easily annotated.

Printing: Automatic printing of data in graphical or tabular form

Units: psia, inches, mmHg, kPascals, Torr, Barr, Feet, °C, °F, °K, °R.

User ID: Programmable through software and stored within device.

AutoScale: Autoscale function may be enabled or disabled by user.

Calibration: Automatic calibration in software and calibration parameters stored within device

Exporting Data: All data can be directly exported to Microsoft Excel® or to text format.

Graph Grid Size: The grid size is user selectable.

ORDERING INFORMATION

Item No.	Model	Description
5399-0301	PRTemp101	Pressure and Temperature Data Logger
5399-9901	IFC101	Interface Cable, Software, Manual
5399-9999	N.I.S.T. Cert.	N.I.S.T. Calibration Certificate

Ask About Our Other Data Loggers

Temperature	4.0 to 20.0 mA
Humidity	Pulse/Counter
Pressure	Submersible
pH	Level
Shock/Vibration	Multi-Parameter
Voltage	Intrinsically Safe
RF Transmitters	

