PRTEMP1000

RUGGED PRESSURE & TEMPERATURE DATA LOGGER

Features

- Rugged
- Reusable
- Submersible
- Programmable start time
- Real-time operation
- User-friendly
- Low cost
- CE compliant

Applications

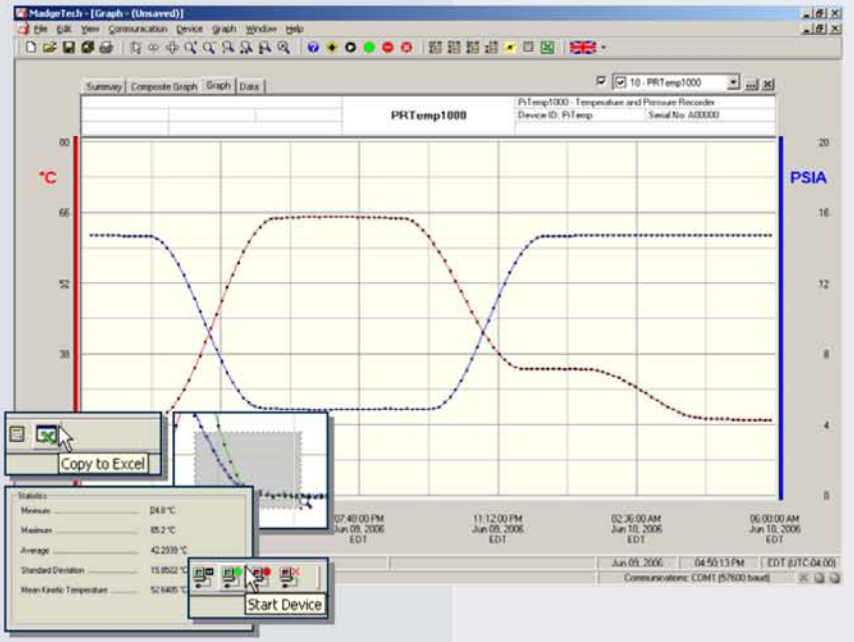
- Pneumatics
- Process control systems
- Gas compressors
- Natural gas production
- Lubrication systems
- Chemical processing
- Pulp and paper processing
- Medical instrumentation
- Environmental studies
- Waste water treatment
- HVAC
- Oil & gas industries

The PRTemp1000 is a rugged pressure recorder to accurately monitor and record pressure and temperature at user programmable reading intervals. The rugged stainless steel design allows for the device to be placed in harsh environments, which makes it well suited for use with air conditioning systems, chilled water, hot water, air, gas, oil and steam pressure systems.

The internal temperature sensor provides accurate temperature measurements without the need for a separate temperature recorder. The logger can be started to take measurements as often as every two seconds, up to one reading every twelve hours. It will store up to 16,383 readings in its non-volatile memory.

The PRTemp1000 uses a rugged stainless steel pressure strain gauge to accurately measure the pressure. The device comes standard with a ¼" NPT fitting, which allows the logger to be connected to almost any pressure adapter. The PRTemp1000 is also available in a fully submersible version upon request.

There are many different pressure ranges available to fit most any application. The standard pressure ranges are 30 PSIA(G), 100 PSIA(G), 300 PSIA(G), 500 PSIA(G), 1000 PSIA and 5000 PSIA. Other ranges may also be available upon request.



Data Recorder Software
displays pressure 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.

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PRTEMP1000 SPECIFICATIONS*

Temperature Sensor:	Semiconductor
Temperature Range:	-40 to +80°C
Temperature Resolution:	0.1°C
Calibrated Accuracy:	±0.5°C
Pressure Sensor:	Semiconductor strain gauge
Pressure Range:	0 to 30, 100, 300 and 500PSIA/G; 0 to 1000 and 5000PSIA
Pressure Resolution:	0.002, 0.005, 0.02, 0.05PSIA/G; 0.05, 0.2PSIA
Calibrated Accuracy:	2% FSR, 0.25% @ 25°C typical
Pressure Response Time:	0.1 ms (10 to 90% FSR)
Repeatability:	±0.5% FSR; ±0.2% typical
Adaptor:	1/4" male NPT or submersible up to 60 PSI
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:	16,383 readings per channel, 32,766 total readings
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:	1 year typical
Data Format:	Date and time stamped °C, °F, K, °R ; PSIA(g), inches, feet, mmHg, bar, Torr, kPa,
Time Accuracy:	±1 minute/month (at 20°C, RS232 port not in use)
Computer Interface:	PC serial or USB (interface cable required); 2,400 baud
Software:	XP SP3/VIsta/Windows 7
Operating Environment:	-40 to +80°C, 0 to 100%RH
Dimensions:	6.4" x 1.25" (163mm x 32mm)
Weight:	12 oz (340 g)
Material:	Stainless Steel
Approvals:	CE

BATTERY WARNING: RISK OF FIRE OR EXPLOSION. DO NOT RECHARGE, FORCE OPEN, HEAT OR DISPOSE OF IN FIRE.

SOFTWARE FEATURES

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

*SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE. SPECIFIC WARRANTY AND REMEDY LIMITATIONS APPLY.

ORDERING INFORMATION

Model	Description
PRTEMP1000-30	0-30PSIA(G) Pressure and Temperature Recorder
PRTEMP1000-100	0-100PSIA(G) Pressure and Temperature Recorder
PRTEMP1000-300	0-300PSIA(G) Pressure and Temperature Recorder
PRTEMP1000-500	0-500PSIA(G) Pressure and Temperature Recorder
PRTEMP1000-1000	0-1000PSIA Pressure and Temperature Recorder
PRTEMP1000-5000	0-5000PSIA Pressure and Temperature Recorder
IFC200	Software, manual and USB interface cable
NIST	N.I.S.T. Calibration Certificate

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	

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