PRTEMP1000IS - Intrinsically Safe Rugged Pressure & Temperature Recorder

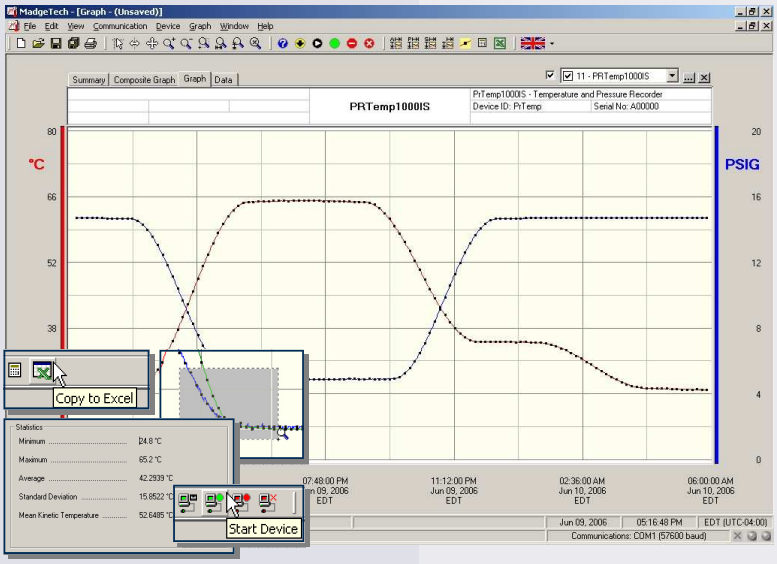
Features

- Intrinsically safe
- Rugged
- Programmable start time
- Real-time operation
- User-friendly
- Low cost
- 1/4" NPT pressure port

Applications

- Oil & gas industries
- 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
- Refrigeration

The PRTemp1000IS is a rugged pressure recorder that accurately monitors and records pressure and temperature at user programmable reading intervals. The PRTemp1000IS has been Factory Mutual certified as intrinsically safe for Class I, Division 1, groups A, B, C and D and non-incendive for Class I, Division 2, groups A, B, C and D. This certification makes the device ideal for uses in hostile environment applications such as 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 of 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 PRTemp1000IS uses a rugged stainless steel pressure strain gauge to accurately measure the pressure. The device comes standard with a common 1/4" NPT fitting, which allows the logger to be adapted to almost any pressure fitting. There are many different pressure ranges available to suit 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.



PTC® 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.

TOLL FREE: 877-782-2329
OUTSIDE U.S.: 310-478-1134
LOS ANGELES, CA 90064-1482

WEB: HTTP://WWW.PTC1.COM
E-MAIL: SALES@PTC1.COM
FAX: 310-312-0826

PRTEMP1000IS 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 500 PSIA/G; 0 to 1000 and 5000 PSIA
Pressure Resolution: 0.002, 0.005, 0.02, 0.05 PSIA/G; 0.05, 0.2 PSIA
Calibrated Accuracy: 2%FSR, 0.25% @ 25°C typical
Pressure Response Time: 0.1ms (10 to 90%FSR)

Repeatability: ±0.5%FSR; ±0.2% typical
Adaptor: 1/4" male NPT

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 (1 minute reading rate @ 25°C)
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: Windows 95/98/ME/NT/2000/XP/Vista based software

Operating Environment: -40 to +80°C, 0 to 100%RH
Dimensions: 6.4" x 1.25" dia. (163mm x 32mm dia.)
Weight: 12 oz (340g)
Material: Stainless Steel
Approvals: CE
FM Certified Intrinsically Safe for Class I, Division 1 groups A, B, C and D

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
PRTEMP1000IS-30	0-30PSIA(G) Intrinsically Safe Pressure and Temperature Recorder
PRTEMP1000IS-100	0-100PSIA(G) Intrinsically Safe Pressure and Temperature Recorder
PRTEMP1000IS-300	0-300PSIA(G) Intrinsically Safe Pressure and Temperature Recorder
PRTEMP1000IS-500	0-500PSIA(G) Intrinsically Safe Pressure and Temperature Recorder
PRTEMP1000IS-1000	0-1000PSIA Intrinsically Safe Pressure and Temperature Recorder
PRTEMP1000IS-5000	0-5000PSIA Intrinsically Safe Pressure and Temperature Recorder
SP100	Software, manual and RS232 interface cable
IFC200	Software, manual and USB interface cable
Contact PTC®	N.I.S.T. Calibration Certificate
TL-2150	Replacement battery for PRTemp1000IS

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	

TOLL FREE: 877-782-2329
OUTSIDE U.S.: 310-478-1134
LOS ANGELES, CA 90064-1482

WEB: HTTP://WWW.PTC1.COM
E-MAIL: SALES@PTC1.COM
FAX: 310-312-0826