PRTEMP1000D
DIFFERENTIAL PRESSURE, TEMPERATURE RECORDER

MADGETECH
WE BUILD DATA LOGGERS

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

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 PRTemp1000D 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.

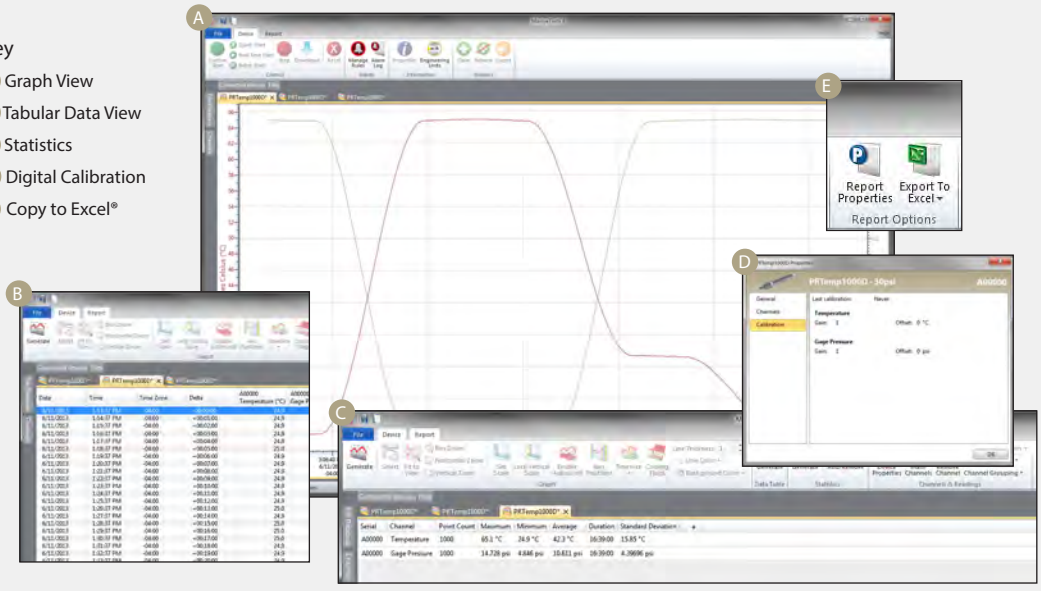
The internal temperature sensor provides accurate temperature measurements without the need for a separate temperature recorder. The logger can be started to take measurements as often as every two seconds, up to one reading every twelve hours. It will store up to 16,383 readings in its non-volatile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

The PRTemp1000D uses a rugged stainless steel pressure strain gauge to accurately measure the pressure. The device comes standard with a ¼ in NPT differential fitting.

There are many different pressure ranges available to fit most any application.

MADGETECH DATA LOGGER SOFTWARE

Key
- A Graph View
- B Tabular Data View
- C Statistics
- D Digital Calibration
- E Copy to Excel®



Software Features:
- Multiple graph overlay
- Statistics
- Digital calibration
- Zoom in/ zoom out
- Lethality equations (F0, PU)
- Mean Kinetic Temperature
- Full time zone support
- Data annotation
- Min./Max./Average lines
- Data table view
- Automatic report generation
- Summary view
- Multilingual

PRTEMP1000D SPECIFICATIONS*

Temperature Sensor:	Semiconductor
Temperature Range:	-20 ºC to +80 ºC (-4 ºF to +176 ºF)
Temperature Resolution:	0.1 ºC (0.18 ºF)
Calibrated Accuracy:	±0.5 ºC (over 0 ºC to 50 ºC)
Pressure Sensor:	Semiconductor strain gauge
Pressure Range:	0 to 30, 100, 300 and 500 PSID
Maximum Line Pressure:	1000 PSI
Pressure Resolution:	0.002, 0.005, 0.02, 0.05 PSID
Calibrated Accuracy:	±0.25 %FSR, 0.1 % @ 25 ºC typical
Pressure Response Time:	1 ms (10 to 90 %FSR)
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 up to 1 reading 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 ºC, ºF, K, ºR ; PSID, inches, feet, mmHg, bar, Torr, kPa,
Time Accuracy:	±1 minute/month (at 20 ºC, RS232 port not in use)
Computer Interface:	PC serial or USB (interface cable required); 2,400 baud
Software:	XP SP3/Vista/Windows 7/Windows 8
Operating Environment:	-20 ºC to +80 ºC (-4 ºF to +176 ºF), 0 %RH to 100 %RH
Dimensions:	0.99 in H x 21.87 in L x 3.35W (25 mm x 533 mm x 85 mm)
Weight:	15.5 oz (440 g)
Material:	Stainless Steel

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

ORDERING INFORMATION

MODEL	DESCRIPTION
PRTEMP1000D-30	0-30PSID Pressure and Temperature Recorder
PRTEMP1000D-100	0-100PSID Pressure and Temperature Recorder
PRTEMP1000D-300	0-300PSID Pressure and Temperature Recorder
PRTEMP1000D-500	0-500PSID Pressure and Temperature Recorder
IFC200	Software, manual and USB interface cable
Calibration Certificate	Calibration Certificate available for data logger
TLH-5902	Replacement battery for PRTemp1000D

ASK ABOUT OUR OTHER DATA LOGGERS

Temperature
Humidity
Pressure
pH
Level
Shock
LCD Display
Pulse/Event/State
Current
Voltage
Wireless
Intrinsically Safe
Spectral Vibration
Motion