

# PRTEMP1000D

## DIFFERENTIAL PRESSURE, TEMPERATURE RECORDER



### 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 1/4 in NPT differential fitting.

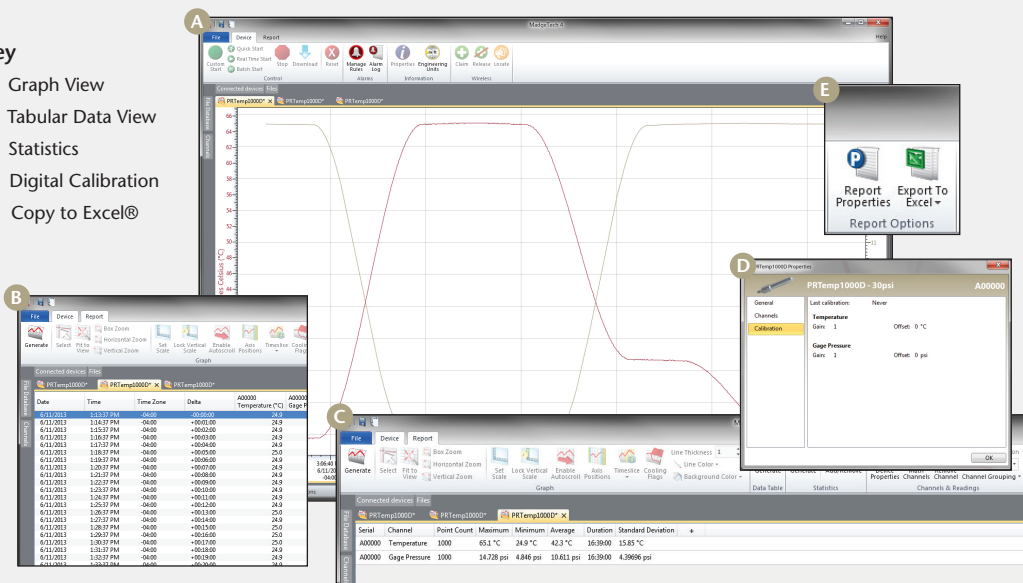
There are many different pressure ranges available to fit most any application.



## 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\*

<b>Temperature Sensor:</b>	Semiconductor
<b>Temperature Range:</b>	-20 °C to +80 °C (-4 °F to +176 °F)
<b>Temperature Resolution:</b>	0.1 °C (0.18 °F)
<b>Calibrated Accuracy:</b>	±0.5 °C (over 0 °C to 50 °C)
<b>Pressure Sensor:</b>	Semiconductor strain gauge
<b>Pressure Range:</b>	0 to 30, 100, 300 and 500 PSID
<b>Maximum Line Pressure:</b>	1000 PSI
<b>Pressure Resolution:</b>	0.002, 0.005, 0.02, 0.05 PSID
<b>Calibrated Accuracy:</b>	±0.25 %FSR, 0.1 % @ 25 °C typical
<b>Pressure Response Time:</b>	1 ms (10 to 90 %FSR)
<b>Adaptor:</b>	1/4" male NPT
<b>Start Modes:</b>	Software programmable immediate start or delay start up to six months in advance
<b>Real Time Recording:</b>	May be used with PC to monitor and record data in real time

<b>Memory:</b>	16,383 readings per channel, 32,766 total readings
<b>Reading Rate:</b>	1 reading every 2 seconds up to 1 reading every 12 hours
<b>Calibration:</b>	Digital calibration through software
<b>Calibration Date:</b>	Automatically recorded within device
<b>Battery Type:</b>	3.6V lithium battery included; <b>user replaceable</b>
<b>Battery Life:</b>	1 year typical
<b>Data Format:</b>	Date and time stamped °C, °F, K, °R ; PSID, inches, feet, mmHg, bar, Torr, kPa,
<b>Time Accuracy:</b>	±1 minute/month (at 20 °C, RS232 port not in use )
<b>Computer Interface:</b>	PC serial or USB (interface cable required); 2,400 baud
<b>Software:</b>	XP SP3/Vista/Windows 7/Windows 8
<b>Operating Environment:</b>	-20 °C to +80 °C (-4 °F to +176 °F), 0 %RH to 100 %RH
<b>Dimensions:</b>	0.99 in H x 21.87 in L x 3.35W (25 mm x 533 mm x 85 mm)
<b>Weight:</b>	15.5 oz (440 g)
<b>Material:</b>	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
IFC110	Software, manual and RS232 interface cable
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