PRTEMP1000IS INTRINSICALLY SAFE RUGGED PRESSURE & TEMPERATURE DATA LOGGER

Features

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

Applications

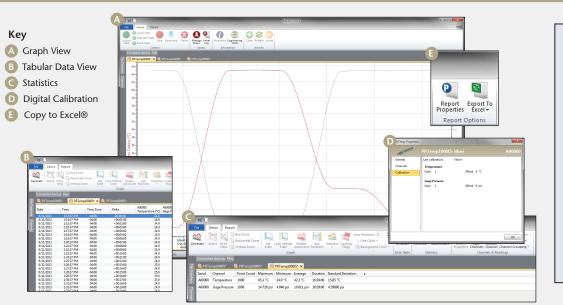
- Oil & gas industries
- Pneumatics
- Process control systems
- Gas compressors
- Natural gas production
- Lubrication systems
- Chemical processing
- Pulp and paper processing
- Medical instrumentation
- Environmental studies
- Waste water treatment

MADGETECH DATA LOGGER SOFTWARE

- 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.



Software Features:

- Multiple graph overlay
- Statistics
- Digital calibration
- Zoom in/ zoom out
- Lethality equations (F0, PU)

MADGETECH

- Mean Kinetic Temperature
- Full time zone support
- Data annotation
- Min./Max./Average lines
- Data table view
- Automatic report generation
- Summary view
- Multilingual

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PRTEMP1000IS SPECIFICATIONS*

*SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE. SPECIFIC WARRANTY REMEDY LIMITATIONS APPLY. CALL 1-603-456-2011 OR GO TO WWW.MADGETECH.COM FOR DETAILS.

Temperature Sensor:	Semiconductor		
Temperature Range:	-40 °C to +80 °C (-40 °F to +176 °F)		
Temperature Resolution:	0.1 °C (0.18 °F)		
Calibrated Accuracy:	±0.5 °C (±0.9 °F)		
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:	0.1 ms (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		

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

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:	3.6 V 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:	XP SP3/Vista/Windows 7/Windows 8	
Operating Environment:	-40 °C to +80 °C (-40 °F to +176 °F), 0 %RH to 100 %RH	
Dimensions:	6.4 in x 1.25 in dia. (163 mm x 32 mm dia.)	
Weight:	12 oz (340 g)	
Material:	Stainless Steel	
Approvals:	CE FM Certified Intrinsically Safe for Class I, Division 1 groups A, B, C and D	

ORDERING INFORMATION

MODEL	DESCRIPTION		Temperature Humidity
PRTEMP1000IS-30	0-30PSIA(G) Intrinsically Safe Pressure and Temperature Recorder	ASK ABOUT OUR OTHER DATA LOGGERS Shock	
PRTEMP1000IS-100	0-100PSIA(G) Intrinsically Safe Pressure and Temperature Recorder		
PRTEMP1000IS-300	0-300PSIA(G) Intrinsically Safe Pressure and Temperature Recorder	LCD Display Pulse/Event/State Current Voltage Wireless Intrinsically Safe Spectral Vibration	
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	-	Motion
IFC110	Software, manual and RS232 interface cable		
IFC200	Software, manual and USB interface cable		
Calibration Certificate	Calibration Certificate available for data logger		
TL-2150	Replacement battery for PRTemp1000IS		
MadgeTech 4 Secure Software License	License for MadgeTech Secure Software (unlimited users, 1 license per computer, more licenses are available.)		

For Quantity Discounts call 603-456-2011 or email sales@madgetech.com

