

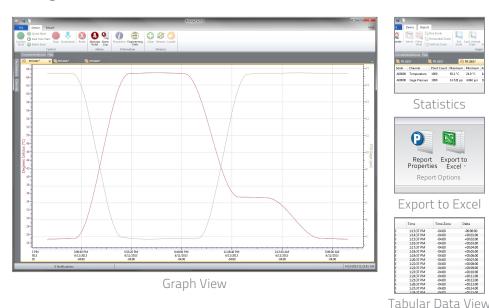
PR1000 Pressure and Temperature Data Logger

The PR1000 is a pressure and temperature data logger used to accurately monitor and record 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 PR1000 can also monitor and record transient pressure through software configuration of user defined trigger thresholds and time periods. The logger can be configured to record measurements at rates as fast as 128Hz or as slow as once every 24 hours. The non-volatile memory has a capacity of over 1 million readings.

The PR1000 uses a stainless steel pressure strain gauge to accurately measure the pressure. The ¼ inch NPT pressure port featured on the device allows for compatibility with a variety of fittings and adapters. The internal temperature sensor provides ambient temperature measurements. The PR1000 is also fully submersible. There are many different pressure ranges available to fit most any application.

MadgeTech 4 Software Features



• Multiple graph overlay

- Statistics
- Digital calibration
- Zoom in/ zoom out
- Lethality equations
- Mean Kinetic Temperature
- Full time zone support
- Data annotation
- Min./Max./Average lines
- Summary view

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



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PR1000

SPECIFICATIONS

Specifications are subject to change without notice. Specific warranty remedy limitations apply. Call (603) 456-2011 or go to madgetech.com for details.

TEMPERATURE		Reading Rat
Temperature Sensor	Semiconductor	
Temperature Range	-40 °C to +80 °C (-40 °F to +176 °F)	Calibration
Temperature		Calibration
Resolution	1.0 °C (1.8 °F)	Battery Typ
Calibrated Accuracy	±2.0 °C (3.6 °F) at 0 °C to +50 °C (+32 °F to +122 °F) ±4.0 °C (7.2 °F) at -40 °C to -1 °C (-40 °F to +30 °F)	Battery Life
	±4.0 °C (7.2 °F) at +51 °C to +85 °C (+124 °F to +185 °F)	Data Forma
PRESSURE		
Pressure Sensor	Semiconductor strain gauge	Time Accura
Pressure Range		Computer I
Pressure Resolution	*See table below	Operating S
Calibrated Accuracy		Compatibil
Pressure Response Tim	e 0.1 ms (10 to 90 %FSR)	Compatibili
•		Operating
Repeatability	±0.5 %FSR; ±0.2 % typical	Environmer
GENERAL		Dimensions
Start Modes	Software programmable immediate start or delay start up	Weight
	to six months in advance	IP Rating
Real Time Recording	May be used with PC to monitor and record data in real time	Material
Memory	1,396,736 readings	
Wrap Around	Yes	Approvals

Reading Rate	1 reading every second up to 1 reading every 24 hours Up to 128 Hz in transient mode		
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 at 25 °C) 10 days at 128 Hz in transient mode		
Data Format	Date and time stamped °C, °F, K, °R ; mbar, PSI, inHg, mmHg, atm, Torr, Pa, kPa, MPa, m		
Time Accuracy	±1 minute/month at 25 °C		
Computer Interface	IFC400 or IFC406 USB docking station required		
Operating System Compatibility	Windows XP SP3 or later		
Software Compatibility	Standard Software version 4.2.21.1 or later		
Operating Environment	-40 °C to +80 °C (-40 °F to +176 °F) 0 %RH to 100 %RH		
Dimensions	3.6 in x 0.97 in dia. (91.3 mm x 24.6 mm dia.)		
Weight	5.5 oz (156 g)		
IP Rating	IP68		
Material	316 Stainless Steel/Radel		
Approvals	CE		

BATTERY WARNING: FIRE, EXPLOSION, AND SEVERE BURN HAZARD. DO NOT SHORT CIRCUIT, CHARGE, FORCE OVER DISCHARGE, DISASSEMBLE, CRUSH, PENETRATE OR INCINERATE. BATTERY MAY LEAK OR EXPLODE IF HEATED ABOVE 80 °C (176 °F).

*Range (PSI)	0-30 PSIA/PSIG	0-100 PSIA/PSIG	0-300 PSIA/PSIG	0-500 PSIA/PSIG	0-1000 PSIA	0-5000 PSIA
Accuracy	2 %FSR, 0.25 % @ 25 °C typical					
Resolution (PSI)	0.0005 PSIA/PSIG	0.002 PSIA/PSIG	0.005 PSIA/PSIG	0.01 PSIA/PSIG	0.02 PSIA	0.1 PSIA

Ordering Information

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PR1000-1000A	PN 902244-00	0-1000 PSIA Pressure and Temperature Data Logger		
PR1000-100A	PN 902241-00	0-100 PSIA Pressure and Temperature Data Logger		
PR1000-100G	PN 902247-00	0-100 PSIG Pressure and Temperature Data Logger		
PR1000-300A	PN 902242-00	0-300 PSIA Pressure and Temperature Data Logger		
PR1000-300G	PN 902248-00	0-300 PSIG Pressure and Temperature Data Logger		
PR1000-30A	PN 902240-00	0-30 PSIA Pressure and Temperature Data Logger		
PR1000-30G	PN 902246-00	0-30 PSIG Pressure and Temperature Data Logger		
PR1000-5000A	PN 902245-00	0-5000 PSIA Pressure and Temperature Data Logger		
PR1000-500A	PN 902243-00	0-500 PSIA Pressure and Temperature Data Logger		
PR1000-500G	PN 902249-00	0-500 PSIG Pressure and Temperature Data Logger		
PR1000-1000A-KR	PN 902274-00	0-1000 PSIA Pressure and Temperature Data Logger with key ring end cap		
PR1000-100A-KR	PN 902271-00	0-100 PSIA Pressure and Temperature Data Logger with key ring end cap		
PR1000-100G-KR	PN 902277-00	0-100 PSIG Pressure and Temperature Data Logger with key ring end cap		
PR1000-300A-KR	PN 902272-00	0-300 PSIA Pressure and Temperature Data Logger with key ring end cap		
PR1000-300G-KR	PN 902278-00	0-300 PSIG Pressure and Temperature Data Logger with key ring end cap		
PR1000-30A-KR	PN 902270-00	0-30 PSIA Pressure and Temperature Data Logger with key ring end cap		
PR1000-30G-KR	PN 902276-00	0-30 PSIG Pressure and Temperature Data Logger with key ring end cap		
PR1000-5000A-KR	PN 902275-00	0-5000 PSIA Pressure and Temperature Data Logger with key ring end cap		
PR1000-500A-KR	PN 902273-00	0-500 PSIA Pressure and Temperature Data Logger with key ring end cap		
PR1000-500G-KR	PN 902279-00	0-500 PSIG Pressure and Temperature Data Logger with key ring end cap		
IFC400	PN 900319-00	Docking station with USB cable		
IFC406	PN 900325-00	6-Port multiplexer docking station with USB cable		
TL2150/S	PN 901745-00	Replacement battery for the PR1000		

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



6 Warner Road, Warner, NH 03278 (603) 456-2011 | madgetech.com

