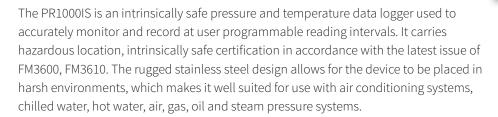


PR1000IS

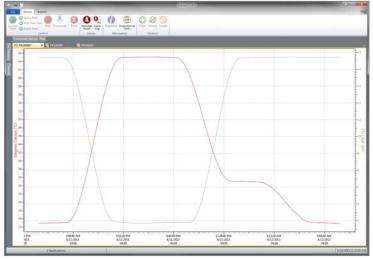
Intrinsically Safe Pressure and Temperature Data Logger



The PR1000IS 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 PR1000IS uses a stainless steel pressure strain gauge to accurately measure the pressure. The $\frac{1}{4}$ 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 PR1000IS is also fully submersible. There are many different pressure ranges available to fit most any application.

MadgeTech 4 Software Features

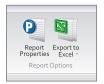


Graph View

- 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



Statistics



Export to Excel



Tabular Data View



Automation



Features

- Rugged
- Reusable
- Submersible
- Programmable start time
- Real-time operation
- · User-friendly
- Low cost
- CE compliant

Certified Intrinsically Safe

- Class 1 Division 1 Group ABCD
- Class 1 Division 2 Group ABCD
- Temperature Class: T4A
- CAN/CSA-C22.2 No. 60079-0:15
- CAN/CSA-C22.2 No. 60079-11:14

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

SPECIFICATIONS

Specifications are subject to change without notice. Specific warranty remedy limitations apply.

TEMPERATURE			
Temperature Sensor	Semiconductor		
Temperature Range	-40 °C to +80 °C (-40 °F to +176 °F)		
Temperature Resolution	1.0 °C (1.8 °F)		
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) ±4.0 °C (7.2 °F) at +51 °C to +85 °C (+124 °F to +185 °F)		

PRESSURE			
Pressure Sensor	Semiconductor strain gauge		
Pressure Range			
Pressure Resolution	*See table below		
Calibrated Accuracy			
Pressure Response Time	0.1 ms (10 to 90 %FSR)		
Repeatability	±0.5 %FSR; ±0.2 % typical		

GENERAL		
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	1,396,736 readings	
Wrap Around	Yes	

<code>BATTERY WARNING</code>: 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 $80\,^{\circ}$ C ($176\,^{\circ}$ F).

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 FM Class 3600, latest revision FM Class 3610, latest revision CAN/CSA-C22.2 No. 60079-0:15 CAN/CSA-C22.2 No. 60079-11:14		

*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

PR1000IS-1000A	PN 902254-00	0-1000 PSIA Intrinsically Safe Pressure and Temperature Data Logger			
PR1000IS-100A	PN 902251-00	0-100 PSIA Intrinsically Safe Pressure and Temperature Data Logger			
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PR1000IS-100G	PN 902257-00	0-100 PSIG Intrinsically Safe Pressure and Temperature Data Logger			
PR1000IS-300A	PN 902252-00	0-300 PSIA Intrinsically Safe Pressure and Temperature Data Logger			
PR1000IS-300G	PN 902258-00	0-300 PSIG Intrinsically Safe Pressure and Temperature Data Logger			
PR1000IS-30A	PN 902250-00	0-30 PSIA Intrinsically Safe Pressure and Temperature Data Logger			
PR1000IS-30G	PN 902256-00	0-30 PSIG Intrinsically Safe Pressure and Temperature Data Logger			
PR1000IS-5000A	PN 902255-00	0-5000 PSIA Intrinsically Safe Pressure and Temperature Data Logger			
PR1000IS-500A	PN 902253-00	0-500 PSIA Intrinsically Safe Pressure and Temperature Data Logger			
PR1000IS-500G	PN 902259-00	0-500 PSIG Intrinsically Safe Pressure and Temperature Data Logger			
PR1000IS-1000A-KR	PN 902284-00	0-1000 PSIA Intrinsically Safe Pressure and Temperature Data Logger with key ring end cap			
PR1000IS-100A-KR	PN 902281-00	0-100 PSIA Intrinsically Safe Pressure and Temperature Data Logger with key ring end cap			
PR1000IS-100G-KR	PN 902287-00	0-100 PSIG Intrinsically Safe Pressure and Temperature Data Logger with key ring end cap			
PR1000IS-300A-KR	PN 902282-00	0-300 PSIA Intrinsically Safe Pressure and Temperature Data Logger with key ring end cap			
PR1000IS-300G-KR	PN 902288-00	0-300 PSIG Intrinsically Safe Pressure and Temperature Data Logger with key ring end cap			
PR1000IS-30A-KR	PN 902280-00	0-30 PSIA Intrinsically Safe Pressure and Temperature Data Logger with key ring end cap			
PR1000IS-30G-KR	PN 902286-00	0-30 PSIG Intrinsically Safe Pressure and Temperature Data Logger with key ring end cap			
PR1000IS-5000A-KR	PN 902285-00	0-5000 PSIA Intrinsically Safe Pressure and Temperature Data Logger with key ring end cap			
PR1000IS-500A-KR	PN 902283-00	0-500 PSIA Intrinsically Safe Pressure and Temperature Data Logger with key ring end cap			
PR1000IS-500G-KR	PN 902289-00	0-500 PSIG Intrinsically Safe 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 PR1000IS			

