

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

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).

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 ATEX Certificate #: SGS21ATEX0060 IECEx Certificate #: BAS21UKEX0071 Japanese Ex Certificate #: CML21JPN2914X

*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

PR1000Ex-1000A	PN 902264-00	0-1000 PSIA Intrinsically Safe Pressure and Temperature Data Logger
PR1000Ex-100A	PN 902261-00	0-100 PSIA Intrinsically Safe Pressure and Temperature Data Logger
PR1000Ex-100G	PN 902267-00	0-100 PSIG Intrinsically Safe Pressure and Temperature Data Logger
PR1000Ex-300A	PN 902262-00	0-300 PSIA Intrinsically Safe Pressure and Temperature Data Logger
PR1000Ex-300G	PN 902268-00	0-300 PSIG Intrinsically Safe Pressure and Temperature Data Logger
PR1000Ex-30A	PN 902260-00	0-30 PSIA Intrinsically Safe Pressure and Temperature Data Logger
PR1000Ex-30G	PN 902266-00	0-30 PSIG Intrinsically Safe Pressure and Temperature Data Logger
PR1000Ex-5000A	PN 902265-00	0-5000 PSIA Intrinsically Safe Pressure and Temperature Data Logger
PR1000Ex-500A	PN 902263-00	0-500 PSIA Intrinsically Safe Pressure and Temperature Data Logger
PR1000Ex-500G	PN 902269-00	0-500 PSIG Intrinsically Safe Pressure and Temperature Data Logger
PR1000Ex-1000A-KR	PN 902294-00	0-1000 PSIA Intrinsically Safe Pressure and Temperature Data Logger with key ring end cap
PR1000Ex-100A-KR	PN 902291-00	0-100 PSIA Intrinsically Safe Pressure and Temperature Data Logger with key ring end cap
PR1000Ex-100G-KR	PN 902297-00	0-100 PSIG Intrinsically Safe Pressure and Temperature Data Logger with key ring end cap
PR1000Ex-300A-KR	PN 902292-00	0-300 PSIA Intrinsically Safe Pressure and Temperature Data Logger with key ring end cap
PR1000Ex-300G-KR	PN 902298-00	0-300 PSIG Intrinsically Safe Pressure and Temperature Data Logger with key ring end cap
PR1000Ex-30A-KR	PN 902290-00	0-30 PSIA Intrinsically Safe Pressure and Temperature Data Logger with key ring end cap
PR1000Ex-30G-KR	PN 902296-00	0-30 PSIG Intrinsically Safe Pressure and Temperature Data Logger with key ring end cap
PR1000Ex-5000A-KR	PN 902295-00	0-5000 PSIA Intrinsically Safe Pressure and Temperature Data Logger with key ring end cap
PR1000Ex-500A-KR	PN 902293-00	0-500 PSIA Intrinsically Safe Pressure and Temperature Data Logger with key ring end cap
PR1000Ex-500G-KR	PN 902299-00	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 PR1000Ex