

PR140

High Temperature Pressure Data Logger

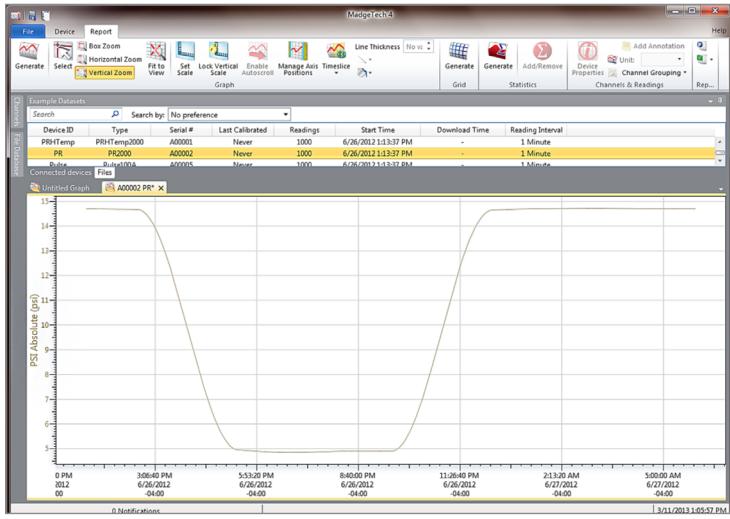
The PR140 is a pressure data logger designed for use in autoclave validation and mapping. This rugged device can withstand temperatures up to 140 °C and is completely submersible (IP68).

The PR140 is built with a precision stainless steel pressure gauge. The device has an accuracy of ± 0.03 bar (± 0.435 PSI), which can be achieved over a wide temperature range, from +20 °C to +140 °C (68 °F to 284 °F). The PR140 can be programmed to take readings as often as once per second (1 Hz), and has non-volatile memory that can store up to 32,256 measurements.

The 1/8-27 NPT pressure port featured on the device allows for compatibility with a variety of fittings and adapters. This is ideal for calibration purposes, as well as connecting the data logger to measure process pressure systems.

The PR140 is easy to use. Simply place it in the IFC400 or IFC406 docking station (sold separately), connect to a computer, and the device can be started, stopped or downloaded using the MadgeTech software. Graphical, tabular and summary data is provided for analysis and can be viewed in PSIA, mmHg, bar, Torr and kPa. The data can also be automatically exported to Excel® for further calculations.

MadgeTech 4 Software Features



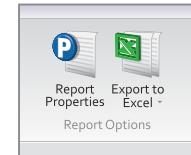
Graph View

- 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
- Summary view



Statistics



Export to Excel

Time	Time Zone	Date
11:26:37 PM	-04:00	-06/26/2012
11:27:17 PM	-04:00	-06/26/2012
11:27:37 PM	-04:00	-06/26/2012
11:27:57 PM	-04:00	-06/26/2012
11:28:17 PM	-04:00	-06/26/2012
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SPECIFICATIONS

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

PRESSURE		GENERAL	
Pressure Sensor	Semiconductor strain gauge	Start Modes	Software programmable immediate start or delay start up to six months
Pressure Range	0 to 5 bar (0 to 72.5 PSIA)	Real Time Recording	May be used with PC to monitor and record data in real time
Pressure Resolution	0.0001 bar (0.00145 PSIA)	Password Protection	An optional password may be programmed into the device to restrict access to configuration options. Data may be read without the password.
Calibrated Accuracy	±0.03 bar (±0.435 PSI) from +20 °C to +140 °C (+68 °F to +284 °F) ±0.1 bar (±1.45 PSI) from -20 °C to +19.99 °C (-4 °F to +68 °F)	Memory	32,256 readings
Pressure Response Time	1 second (10 to 90 % FSR)	Wrap Around	Yes
		Reading Rate	1 reading every second up to 1 reading every 24 hours
		Calibration	Digital calibration through software
		Calibration Date	Automatically recorded within device
		Battery Type	3.6V high-temperature lithium battery included, user replaceable
		Battery Life	2 years
		Data Format	PSIA, inHg, mmHg, bar, atm, Torr, Pa, kPa, MPa
		Time Accuracy	±1 minute/month at 20 °C to 30 °C
		Computer Interface	IFC400 or IFC406 USB docking station required
		Operating System Compatibility	Windows XP SP3 or later
		Software Compatibility	Standard Software version 2.06.02 or later Secure Software version 4.1.3.0 or later
		Operating Environment	-20 °C to +140 °C (-4 °F to +284 °F) 0 %RH to 100 %RH, 0.002 PSIA to 100 PSIA
		Dimensions	Flush Top: 2.0 in x 1.0 in dia. (50.8 mm x 25.4 mm dia.) NPT Pressure Port Top: 2.3 in x 1.0 in dia. (58.2 mm x 25.4 mm dia.) NPT Specification: 1/8-27
		Weight	Flush Top: 3.1 oz (90 g) NPT Pressure Port Top: 3.5 oz (100 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, CRUSH, PENETRATE, OR INCINERATE. BATTERY MAY LEAK OR EXPLODE IF HEATED ABOVE 150°C (302°F).

Ordering Information

PR140-LVL	PN 900998-00	Pressure Data Logger with Flush Top
PR140-NPT	PN 900992-00	Pressure Data Logger with 1/8-27 NPT Pressure Port Top
IFC400	PN 900319-00	Docking station with USB cable
IFC406	PN 900325-00	6 Port, Multiplexer docking station with USB cable
ER14250-SM Formerly ER14250MR-145	PN 900097-00	Replacement battery for the PR140

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