DATASHEET

PR2000-500-PSIA

MadgeTech

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MADGETECH
WE BUILD DATA LOGGERS

PR2000

Pressure Data Logger with LCD Display

The PR2000 is a battery powered pressure data logger, with an LCD display. It is perfect for applications requiring display pressure readings and a logger.

The 8-button keypad and large LCD provide convenient access to current data and recorder setup. Additionally, memory and battery levels, external power status, and sampling and recording status are shown on the LCD.

Available on-screen data includes: statistics (min, max, average); recording status (start, stop and recording rate); display options (units, text size); and calibration information (date calibrated, date for recalibration). Statistics can be cleared at any time during logging.

With 262,144 readings, the PR2000 has one of the largest memory capacities of any similar data recorder on the market. The non-volatile memory will retain recorded data, even if battery power is lost.

A calibration certificate is available for users needing to meet regulatory requirements. Creating permanent records, performing data calculations, and the graphing of data is quick and easy: Simply connect the interface cable to an available USB port and, with a few clicks of the mouse, data is downloaded and ready for review or export to Excel®.

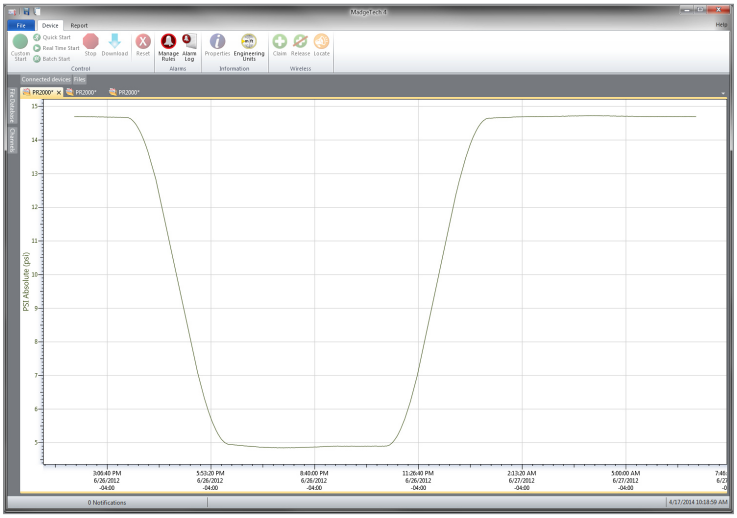
Features

- Large, backlit LCD display
- Front keypad with lock feature
- Standard ¼ inch NPT fitting
- High speed download
- Real-time operation
- User-selectable measurement units
- Min./max. and average statistics
- Programmable start/stop time
- Convenient status indicators
- User replaceable batteries

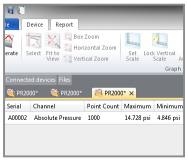
Applications

- Precision Pressure Recording
- HVAC
- Medical and Pharmaceutical
- Environmental studies
- Replace costly strip chart recorders
- Geothermal

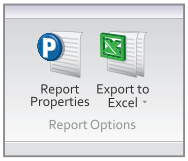
MadgeTech 4 Software Features



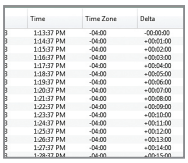
Graph View



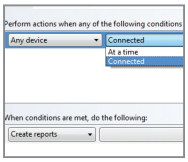
Statistics



Export to Excel



Tabular Data View



Automation

- 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

SPECIFICATIONS

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

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

DOT-MATRIX LCD	
Dimensions	2.5 in x 1.375 in (63 mm x 35 mm)
Text	Configurable channel text size
Indicators	Power, status, memory
Backlight	Configurable w/auto shut-off and contrast adjustment

GENERAL	
Start Modes	Software programmable start time and date, up to six months in advance
Stop Modes	Programmable stop time
Real Time Recording	May be used with PC to monitor and record data in real time
Password Protection	An optional password may be programmed into the device to restrict access to configuration options. Data may be read without the password.

Memory	262,144 readings
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	6 alkaline AA batteries, user replaceable
Battery Life	1 year battery life at 1 minute reading rate with display off. 30 days typical with continuous display use. Optional AC adapter available.
Data Format	PSIG, inHg, mmHg, bar, atm, Torr, Pa, kPa, MPa
Time Accuracy	±1 minute/month at 25 ºC (77 ºF)
Computer Interface	USB (interface cable required); 115,200 baud
Operating System Compatibility	Windows XP SP3 or later
Operating Environment	-20 ºC to +60 ºC, 0 %RH to 95 %RH non-condensing
Dimensions	5.1 in x 4.8 in x 1.7 (130 mm x 122 mm x 43 mm)
Weight	40 oz (1134 g)
Material	Black anodized aluminum case/NPT Steel
Approvals	CE

BATTERY WARNING: DO NOT CONNECT IMPROPERLY, CHARGE OR DISPOSE OF IN FIRE. BATTERY MAY EXPLODE OR LEAK.

*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)	0.002	0.005	0.02	0.05	0.05	0.2

Ordering Information

PR2000-1000-PSIA	PN 901003-00	0-1000 PSIA Pressure Data Logger with LCD Display
PR2000-100-PSIA	PN 901008-00	0-100 PSIA Pressure Data Logger with LCD Display
PR2000-100-PSIG	PN 901012-00	0-100 PSIG Pressure Data Logger with LCD Display
PR2000-300-PSIA	PN 901019-00	0-300 PSIA Pressure Data Logger with LCD Display
PR2000-300-PSIG	PN 901023-00	0-300 PSIG Pressure Data Logger with LCD Display
PR2000-30-PSIA	PN 901029-00	0-30 PSIA Pressure Data Logger with LCD Display
PR2000-30-PSIG	PN 901033-00	0-30 PSIG Pressure Data Logger with LCD Display
PR2000-5000-PSIA	PN 901037-00	0-5000 PSIA Pressure Data Logger with LCD Display
PR2000-500-PSIA	PN 901042-00	0-500 PSIA Pressure Data Logger with LCD Display
PR2000-500-PSIG	PN 901047-00	0-500 PSIG Pressure Data Logger with LCD Display
IFC200	PN 900298-00	USB interface cable
MN1500	PN 900379-00	Replacement battery for the PR2000

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

AKRIBIS www.akribis.info contact@akribis.info

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