MADGETECH
WE BUILD DATA LOGGERS

Product Information Card

PR2000

Description	PR2000
Pressure Sensor	Semiconductor (strain guage)
Pressure Range	*See Table Below
Pressure Resolution	
Pressure Accuracy	
Memory	262,143
Reading Rate	1 reading every 2 seconds up to 1 reading every 24 hours
Required Interface Package	IFC200
Baud Rate	115,200
Typical Battery Type	6 Alkaline AA Batteries
Operating Environment	-20 °C to 60 °C (-4 °F to 140 °F), 0 %RH to 95 %RH (non-condensing)
Material	Black anodized aluminum and 303 stainless steel NPT process connection
Dimensions	5.1 in x 4.8 in x 1.78 in (130 mm x 122 mm x 45 mm)
Weight	40 oz (1134 g)
Approvals	CE

* PR2000 Pressure Range, Resolution and Accuracy

Range (PSI)	0-30	0-100	0-300	0-500	0-1000	0-5000
Resolution	2% FSR, 0.25% @ 25 °C typical					
Accuracy (PSI)	0.002	0.005	0.02	0.05	0.05	0.2

Battery Warning

WARNING: RISK OF FIRE OR EXPLOSION. DO NOT RECHARGE, FORCE OPEN, HEAT OR DISPOSE OF IN FIRE.

PR2000
Pressure Data Logger with LCD

Specifications subject to change.
See MadgeTech's terms and conditions at www.madgetech.com

MadgeTech, Inc.
6 Warner Road • Warner, NH 03278
Phone 603.456.2011 • Fax 603.456.2012
www.madgetech.com • info@madgetech.com

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Product Notes

The PR2000 is a pressure data logger with LCD display. The device features an IP rating of 65, which means it is dust proof, and splash proof making it available to be used outdoors. The convenient LCD provides access to the current pressure reading, as well as minimum, maximum and average statistics. A trending graph is also displayed of the last 100 readings.

For additional information refer to your PR2000 manual and "Data Logger & Software Operating Manual".

Submergibility

The PR2000 is rated IP65, which means it is dust tight and can withstand water jets.

Backlight

The backlight uses a significant amount of battery life. Refer to the manual to configure the auto shut-off when not in use.

Set Password

To password protect the device so that others cannot start, stop or reset the device;

- In the **Connected Devices** panel, click the device desired.
- On the **Device** Tab, in the **Information** Group, click **Properties**. Or, right-click the device and select **Properties** in the context menu.
- On the **General** Tab, click **Set Password**.
- Enter and confirm the password in the box that appears, then select **OK**.

Installation Guide

Installing the Interface Cable

- IFC200
  Insert the device into a USB port. The drivers will install automatically.

Installing the Software

Insert the Software USB Stick in an open USB port. If the autorun does not appear, locate the drive on the computer and double click on **Autorun.exe**. Follow the instructions provided in the Wizard.

Device Operation

Connecting and Starting the Data Logger

- Once the software is installed and running, plug the interface cable into the data logger.
- Connect the USB end of the interface cable into an open USB port on the computer.
- The device will appear in the Connected Devices list, highlight the desired data logger.
- For most applications, select "**Custom Start**" from the menu bar and choose the desired start method, reading rate and other parameters appropriate for the data logging application and click "**Start**". (*"**Quick Start**" applies the most recent custom start options, "**Batch Start**" is used for managing multiple loggers at once, "**Real Time Start**" stores the dataset as it records while connected to the logger.*)
- The status of the device will change to "**Running**", "**Waiting to Start**" or "**Waiting to Manual Start**", depending upon your start method.
- Disconnect the data logger from the interface cable and place it in the environment to measure.

Note: The device will stop recording data when the end of memory is reached or the device is stopped. At this point the device cannot be restarted until it has been re-armed by the computer.

Downloading Data from a Data Logger

- Connect the logger to the interface cable.
- Highlight the data logger in the Connected Devices list. Click "**Stop**" on the menu bar.
- Once the data logger is stopped, with the logger highlighted, click "**Download**". You will be prompted to name your report.
- Downloading will offload and save all the recorded data to the PC..

Device Maintenance

Battery Replacement

Materials: 9/64" HEX Driver (Allen Key) and a Replacement Batteries (6 AA)

- Remove the back cover from the device by unscrewing the four screws.
- Remove the batteries from the compartment.
- Insert the new batteries as indicated by the diagram on the battery holder.
- Replace the cover taking care not to pinch the wires. Screw the enclosure back together.

Note: Be sure not to over tighten the screws or strip the threads.

Recalibration

The PR2000 standard calibration is dependant upon the range.

Pricing:

Recalibration traceable to NIST	$70.00
Recalibration	$40.00

Range (PSIA)	0-30	0-100	0-300	0-500	0-1000	0-5000
Range (PSIG)	0-30	0-100	0-300	0-500	-	-
Calibration Points (PSIA)	~14.7 and 27-30	~14.7 and 90-100	~14.7 and 270-300	~14.7 and 270-300	~14.7 and 450-500	~14.7 and 450-500

Additional Services:

Custom calibration and verification point options available, please call for pricing.

Call for custom calibration options to accommodate specific application needs.
Prices and specifications subject to change. See MadgeTech's terms and conditions at www.madgetech.com
To send devices to MadgeTech for calibration, service or repair, please use the MadgeTech RMA Process by visiting www.madgetech.com, then under the services tab, select RMA Process.