PR2000

Pressure Data Logger
with LCD Screen

PRODUCT USER GUIDE

To view the full MadgeTech product line, visit our website at **madgetech.com**.

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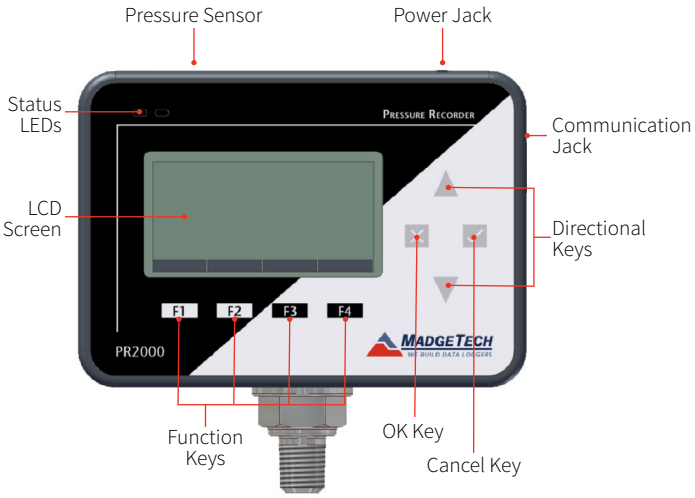
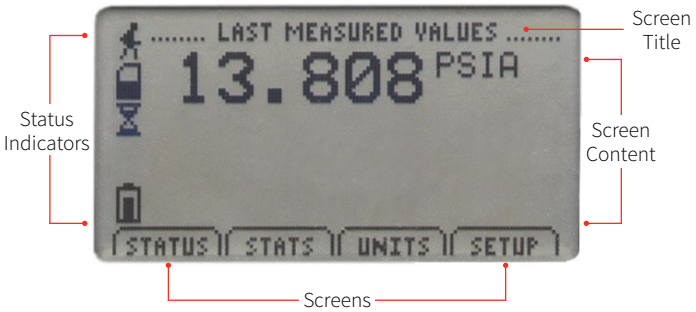
Product Overview

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.

Display Overview



LCD Screen Overview



Status Indicators

Battery Power (Full, Half-full, Empty)

Memory Remaining (Empty, Half-full, Full)

Device is running

Device is stopped

Delay Start

Wait Icon (device is busy)

Device reset has occurred

External power present

Installation Guide

Installing the Interface Cable

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

Installing the Software

The Software can be downloaded from the MadgeTech website at **madgetech.com**. Follow the instructions provided in the Installation Wizard.

Device Operation

Connecting and Starting the Data Logger

1. Once the software is installed and running, plug the interface cable into the data logger.
2. Connect the USB end of the cable into an open USB port on the computer.
3. The device will appear in the Connected Devices list. Highlight the desired data logger.
4. 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
5. The status of the device will change to **Running** or **Waiting to Start**, depending upon your start method.
6. Disconnect the data logger from the USB 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.*

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Downloading Data from a Data Logger

1. Connect the logger to the interface cable.
2. Highlight the data logger in the Connected Devices list. Click **Stop** on the menu bar.
3. Once the data logger is stopped, with the logger highlighted, click **Download**.
4. Downloading will offload and save all the recorded data to the PC.

Device Functions

Changing Display Units

The PR2000 comes with factory default display units of PSI for pressure and the real-time pressure graphing feature.

To change the units from the **Home Screen**:

1. Press F3 to view the **Units Screen**
2. Press F1 for **pressure** or F2 for **pressure graph**
3. Scroll through the available units using ▲▼

Checking Memory Status

A status icon appears on all screens representing memory, but further information including percent memory left and number of readings taken can also be viewed.

To check the memory status from the **Home Screen**:

1. Press F1 to view the **Status Screen**
2. Press F2 to view memory status information

Checking Power Status

A battery status and external power status (if available) icon appear on all screens, but per-cent battery power remaining and external power presence as well as battery type, current battery voltage, and current external voltage can also be viewed.

To check the power status from the **Home Screen**:

1. Press F4 to view the **Device Configuration Menu**
2. Press F2 to access the power options
3. Press F4 and F4 again to view the **Power Status Screen**, including battery power percent remaining and the presence of external power. Battery type and battery voltage are also displayed, as well as external power voltage (if connected).

Changing LCD Contrast

To change the LCD screen contrast from **Any Screen**:

1. Press ☒ + ▲ to increase or ▼ to decrease

Screen Descriptions

Main Screen

Displays last measured values.

Status Screens

Run Parameters

Memory Status

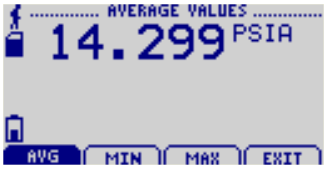
Date and Time

Statistics

Statistics Menu Screen: Displays options available within the statistics menu

Channel Statistics: Displays statistics

Type Statistics: Displays statistics from the pressure channel



Statistics Information Screen: Displays current statistics information

Device Configuration Menu

Displays options available within the device configuration menu.

F1 = DISPLAY: enters Adjust Visibility screen
F2 = POWER: enters Power Modes screen
F3 = INFO: goes to Device Information screens
F4 = EXIT: returns to main screen

☒ or ☑ = returns to main screen
▲▼ = no function

Device Reset

This device includes two reset options, Hardware and Power Interruption.

Hardware Reset: Displayed as notification when a hardware reset has occurred.

Power Interruption: Displayed as notification when power is interrupted during device operation.

F1 = OK: accepts notification and displays main screen
F2 = no function
F3 = no function
F4 = no function

☒ = no function
☑ = accepts notification and displays main screen
▲▼ = no function

Device Maintenance

Battery Replacement

Materials: 3⁄32 inch HEX Driver (Allen Key) and Replacement Batteries (6 AA)

1. Remove the cover from the device by unscrewing the four screws.
2. Remove the batteries from the compartment and unsnap it from the connector.
3. Snap the new batteries into the terminals and verify it is secure.
4. Replace the cover taking care not to pinch the wires. Screw the enclosure back together securely.

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

Recalibration

Recalibration is recommended annually. To send devices back for calibration, visit **madgetech.com**.

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Product Support & Troubleshooting:

- Visit our Resources online at **madgetech.com/resources**.
- Contact our friendly Customer Support Team at (603) 456-2011 or **support@madgetech.com**.

MadgeTech 4 Software Support:

- Refer to the built-in help section of the MadgeTech 4 Software.
- Download the MadgeTech 4 Software Manual at **madgetech.com**.
- Contact our friendly Customer Support Team at (603) 456-2011 or **support@madgetech.com**.

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