

Device Maintenance

Battery Replacement

Materials:

Small Phillips Head Screwdriver

Replacement Battery

(LTC-3PN for PRTemp101 and LTC-7PN for PRTemp110)

- Puncture the center of the back label with the screw driver and unscrew the enclosure.
- Remove the battery by pulling it perpendicular to the circuit board.
- Insert the new battery into the terminals and verify it is secure.
- Screw the enclosure back together securely.

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

Battery Warning

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).

Recalibration

The PRTemp101 or PRTemp110 standard calibration is one point at 25°C and two points at 14.7 PSI and 30 PSI.

Pricing:

Recalibration traceable to NIST \$90.00

Recalibration \$70.00

Additional:

As Found Data \$15.00

Additional Points \$15.00 per point

To send the devices back, visit www.madgetech.com, select Services then RMA Process.

Part Number	PRTemp101	PRTemp110
Temperature Sensor	Semiconductor	
Temperature Range	-40 to +80°C	
Temperature Resolution	0.1°C	
Calibrated Accuracy	±0.5°C	
Pressure Sensor	Semiconductor (strain gauge)	
Pressure Range	0 to 30 PSIA	
Pressure Resolution	0.002PSIA	
Calibrated Accuracy	±1%FSR@25°C, ±0.2% typical	
Memory	8,191/channel	16,383/channel
Sample Rate	2 seconds up to 12 hours	
LED Indicator	Red	
Battery Life	1 year	10 years
Required Interface	IFC110 or IFC200	
Baud Rate	2,400	57,600
Operating Environment	-40 to +80°C, 0 to 95%RH (non-condensing)	
Material	ABS plastic	
Dimensions	1.4" x 2.2" x 0.9" (36mm x 56mm x 23mm)	1.7" x 2.3" x 0.9" (44mm x 59mm x 23mm)
Approvals	CE	

Specifications subject to change.

See MadgeTech's terms and conditions at www.madgetech.com

MadgeTech, Inc.
 PO Box 50 • Warner, NH 03278
 Phone 603.456.2011 • Fax 603.456.2012
www.madgetech.com • info@madgetech.com

PRTemp101 and PRTemp110



PRTemp101

Temperature and Pressure Recorder

PRTemp110

Temperature and Pressure Recorder with 10 Year Battery Life

Product Notes

LEDs

Once started, the LED will flash at the selected reading rate to indicate that the device is running.

Installation Guide

Installing the Interface cable

- IFC200, IFC202 or IFC300
Refer to the “Quick Start Guide” included in the package.
- IFC110, IFC102 or IFC103
Plug the serial cable into the port and verify it is secure.
- USB-1 or USB-101
Install the USB drivers from the CD provided in the kit, than plug the USB cable into the computer and the serial cable into the serial port.

Installing the software

Insert the Software CD in the CD-ROM Drive. 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.

Connecting the data logger

- Once the software is installed and running, plug the interface cable into the data logger.
- Click the **Communication Menu**, then **Auto Configure Port**.
- After a moment, a box similar to the following will appear;



- Click **OK**. The **Device Status** box will appear. Click **OK**.
- At this point, communications have been configured for your logger. These settings can be found under the **Communication Menu**.

Note: For additional installation instructions refer to your “Data Logger & Software Operating Manual”.

Device Operation

Starting the data logger

- Click **Device Menu** then **Start Device**.
- Choose the desired start method.
- Choose the start parameters by selecting a **Reading Rate** suitable for your application.
- Enter in any other desired parameters and click **Start**.
- A box will appear stating the data logger has been started. Click **OK**.



- 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 data logger to the interface cable.
- Click the **Device Menu** then **Read Device Data**. This will offload all recorded data onto the PC.

Technical Support

Visit www.madgetech.com, or call (603) 456-2011. Technical support is also available by e-mailing support@madgetech.com

Additional product information is available by e-mailing info@madgetech.com.