

Description	HiTemp150	HiTemp150-PT	HiTemp150-FP
Temperature Sensor	100Ω platinum RTD		
Temperature Measurement Range	-200 °C to +260 °C	-200 °C to +260 °C	-40 °C to +260 °C
Temperature Resolution	0.05 °C		
Temperature Accuracy	±0.5 °C (over 100 °C span)		
Memory	32,767		
Sample Rate	1 second up to 12 hours		
Required Interface Package	IFC110 or IFC200		
Baud Rate	2,400		
Typical Battery Life	1 year		
Operating Environment	-40 °C to +150 °C, 0 to 100%RH, 150 PSIG	-40 °C to +150 °C, 0 to 100%RH, 150 PSIG	-40 °C to +150 °C, 0 to 95% RH (non-condensing)
Material	Body and Probe: 316 Stainless Steel		Body and Probe: 316 Stainless Steel Cable: TEFLON®
Dimensions (Body)	1.1" x 1.75" dia. (28 mm x 45 mm dia.)		
Dimensions (Probe)	2.0" x 3/16" dia. (50 mm x 5 mm dia.)	24" x .062" dia. (50 mm x 5 mm dia.)	4" X 1/8" dia. (102 mm x 4 mm dia.)
Submersible	Yes	Yes	No
Weight	8 oz (225 g)	8 oz (225 g)	9 oz (255 g)
Approvals	CE		

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 150 °C (302 °F).

Specifications subject to change.

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

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DOC-1110035-00 REV 10 2014.03.11

Product Information Card

HiTemp150, HiTemp150-PT & HiTemp150-FP



HiTemp150

Extended Range Temperature Data Logger

HiTemp150-PT

Extended Range Temperature Data Logger with 24" Flexible Stainless Steel Probe

HiTemp150-FP

Extended Range Temperature Data Logger with Flexible Probe

Product Notes

The HiTemp150 and HiTemp150-PT can be used in both wet and dry applications up to 150 °C indefinitely. The HiTemp150-FP can be used in dry applications up to 150 °C indefinitely. To start the logger, unscrew the knurled nut to access the communication port. Screw the knurled nut back on to ensure a waterproof fit.

Submergibility

The HiTemp150 and HiTemp150-PT are fully submergible and are rated IP68. They can be placed in environments with up to 345 feet (105 m) of water. The HiTemp150-FP cannot be submerged.

Bend Radius

The flexible probe on the HiTemp150-PT can be bent to a 1/4" bend radius.

O-Rings

O-Ring maintenance is a key factor when properly caring for the HiTemp150, HiTemp150-PT and HiTemp150-FP. The O-Rings ensure a tight seal and prevent liquid from entering the inside of the device. Please refer to the application note "O-Rings101: Protecting Your Data Logger", found on the MadgeTech website, for information on how to prevent O-Ring failure.

Note: This product is rated for use up to 150°C. Please heed the battery warning. The product will explode if exposed to temperatures above 150 °C.

Installation Guide

Installing the Interface cable

- IFC200
Insert the device into a USB port. The drivers will install automatically.
- IFC110
Plug the serial cable into the port and verify it is secure.

Installing the software

Insert the Software USB into 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 data 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

The HiTemp150, HiTemp150-PT, and HiTemp150-FP must be sent to MadgeTech for battery replacement.

Recalibration

The HiTemp150, HiTemp150-PT, and HiTemp150-FP standard calibrations are two points at 50 °C and 140 °C.

Pricing:

Recalibration traceable to NIST	\$70.00
Recalibration	\$40.00

Prices and specifications subject to change. See MadgeTech's terms and conditions at www.madgetech.com. To send the device back, visit www.madgetech.com, select Services then RMA Process.