![MadgeTech - WE BUILD DATA LOGGERS]

Specification	HiTemp140	HiTemp140-PT
Temperature Sensor	100Ω platinum RTD	
Probe Range	−200 to +260°C	
Temperature Resolution	0.01°C	
Temperature Accuracy	±0.1ºC/±0.18ºF (20ºC to +140ºC/68ºF to +284ºF) ±0.3°C/±0.54ºF (-20°C to +19.99°C/-4°F to +67.98°F)	
Memory	32,700	
Sample Rate	1 second up to 24 hours	
Required Interface Package	IFC400	
Baud Rate	125,000	
Typical Battery Life	1 year (1 minute reading rate at 25°C/77°F)	
Operating Environment	−20 to +140°C, 0 to 100%RH,	
Material	316 Stainless Steal	
Dimensions (Body)	2.7" x 0.97" dia. (67mm x 25mm dia.)	
Dimensions (Probe)	2" x .188" to .125" dia.*** (50mm x 3.8mm to 3.2mm dia.)	Probe tip: 0.125"OD x 1.5"L Flexible Portion:24"x 0.062"ODdia
Submersible	Yes	
Approvals	CE	

***Probe lengths up to 7" available upon request.*

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 140°C (284°F).

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

HiTemp140 and HiTemp140-PT

HiTemp140
Autoclave Temperature Data Logger

HiTemp140-PT
Autoclave Temperature Data Logger with 24" Flexible Stainless Steel Probe

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

Product Notes

The HiTemp140 and HiTemp140-PT can be used in both wet and dry applications up to 140°C indefinitely.

Submergibility

The HiTemp140 and HiTemp140-PT are fully submersible and are rated IP68. They can be placed in environments with up to 230 feet (70m) of water.

Bend Radius

The flexible probe on the HiTemp140-PT can be bent to a 1/4" bend radius.

O-Rings

O-ring maintenance is a key factor when properly caring for the HiTemp140 and HiTemp140-PT. The o-rings ensure a tight seal and prevent liquid from entering the inside of the device. Please refer to the application note "O-Rings 101: Protecting Your Data", found on the MadgeTech website, for information on how to prevent O-ring failure.

Note: This product is rated for use up to 140°C. Please heed the battery warning. The product will explode if exposed to temperatures above 140°C.

Device Maintenance

Battery Replacement

Materials:

ER1425S-HT Battery

- Unscrew the bottom of the logger and remove the battery.
- Place the new battery into the logger. Note the polarity of the battery.
- Screw the cover back onto the logger.

Recalibration

The HiTemp140 and HiTemp140-PT standard calibrations are two points at 30°C and 140°C.

Pricing:

Recalibration traceable to NIST	$70.00
Recalibration	$40.00

Additional Services:

Verification Point	$15.00 per point

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

Installation Guide

Installing the Interface cable

- IFC400
  Refer to the "Quick Start Guide" included in the package.

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 will appear stating that a device has been found.
- 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.