HITEMP140
AUTOCLAVE TEMPERATURE DATA LOGGER

MADGETECH
WE BUILD DATA LOGGERS

Features

- ±0.1°C (0.18°F) Accuracy
- Operates Up To 140°C (284°F)
- Submersible (IP68)
- N.I.S.T. traceable
- User Replaceable Battery
- Rugged
- Programmable start time
- Programmable stop time
- Engraved Label
- Probe Lengths Up To 7"
- Battery Life Indicator

Benefits

- Simple Setup and Installation
- Minimal Long-Term Maintenance
- Long-Term Field Deployment

Applications

- Autoclave Verification
- Implement HACCP Programs
- Food Preparation and Processing
- Environmental Studies
- Well Monitoring
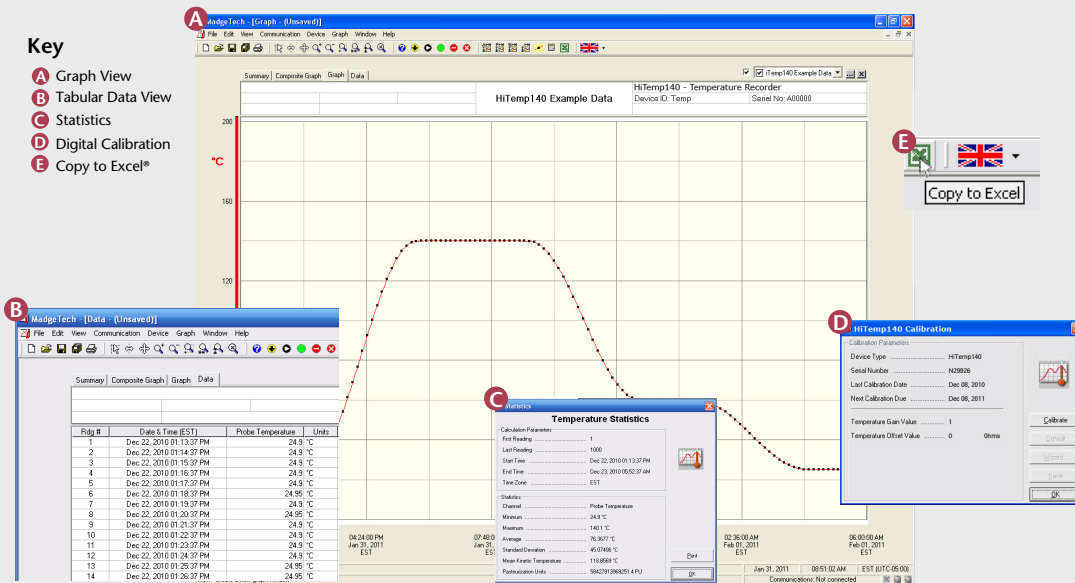- Dishwasher Testing
- Pasteurization

The HiTemp140 is a rugged, high precision, temperature data logger that is built for use in harsh environments. This stainless steel device is submersible and can withstand temperatures up to 140°C (284°F). With the HiTemp140's standard calibration an accuracy of +/-0.1°C (0.18°F) can be achieved over a wide temperature range, from 20°C to +140°C (68°F to +284°F).

The HiTemp140 can store up to 32,700 readings, and features a rigid external probe capable of measuring extended temperatures, up to 260°C (500°F). Custom probe lengths are available up to 7". The device records date and time stamped readings, and has non-volatile solid state memory that will retain data even if the battery becomes discharged.

Using the MadgeTech Software, starting, stopping and downloading the HiTemp140 is simple and easy. Graphical, tabular and summary data is provided for analysis and data can be viewed in °C, °F, K or °R. The data can also be automatically exported to Excel® for further calculations.

MADGETECH DATA LOGGER SOFTWARE

Key

- **A** Graph View
- **B** Tabular Data View
- **C** Statistics
- **D** Digital Calibration
- **E** Copy to Excel®

Software Features:

- Multiple graph overlay
- Statistics
- Digital calibration
- Zoom in/ zoom out
- Lethality equations (F_0, PU)
- Mean Kinetic Temperature
- Full time zone support
- Data annotation
- Min./Max./Average lines
- Data table view
- Automatic report generation
- Summary view
- Multilingual

HITEMP140 SPECIFICATIONS*

Temperature Sensor:	100Ω Platinum RTD
Probe Measurement Range:	-200ºC to +260ºC (-328ºF to +500ºF)
Temperature Resolution:	0.01ºC (0.02ºF)
Calibrated Accuracy:	±0.1ºC/±0.18ºF (20ºC to +140ºC/68ºF to +284ºF) ±0.3ºC/±0.54ºF (-20ºC to +19.99ºC/-4ºF to +67.98ºF)
Start Modes:	• Software programmable immediate start • Delay start up to eighteen months in advance
Stop Modes:	• Manual through software • Timed (specific date and time)
Real Time Recording:	May be used with PC to monitor and record data in real time
Password Protection:	An optional password may be programmed into the device to restrict access to configuration options. Data may be read out without the password.
Memory:	32,700 readings
Wrap Around:	Yes
Reading Rate:	One second up to once every 24 hours
Battery Type:	3.6V high-temperature lithium battery included; **user replaceable**
Battery Life:	1 year typical (1 minute reading rate at 25ºC/77ºF)

Calibration:	Digital calibration through software
Calibration Date:	Automatically recorded within device
Data Format:	Date and time stamped ºC, ºF, K, ºR
Time Accuracy:	±1 minute/month at 20ºC to 30ºC (68ºF to 86ºF) (Stand alone mode)
Computer Interface:	IFC400 USB docking station required; 125,000 baud
Software:	XP SP3/Vista/Windows 7
Operating Environment:	-20ºC to +140ºC (-4ºF to +284ºF), 0%RH to 100%RH
Dimensions (Body HiTemp140-1):	1.55" x 0.97" dia. (40mm x 25mm dia.)
Dimensions (Body HiTemp140-2, 5.25, 7):	1.75" x 0.97" dia. (45mm x 25mm dia.)

Model Number Dimensions (Probe)

HITEMP140-1:	1" x 0.125" dia. (0.188" transitional dia.) 25mm x 3.2mm dia. (4.8mm transitional dia.)
HITEMP140-2:	2.0" x 0.188" dia. (51mm x 4.8mm)
HITEMP140-2-TD:	2.0" x 0.125" dia. (0.188" transitional dia.) 51mm x 3.2mm dia. (4.8mm transitional dia.)
HITEMP140-5.25:	5.25" x 0.188" dia. (134mm x 4.8mm dia.)
HITEMP140-5.25-TD:	5.25" x 0.125" dia. (0.188" transitional dia.) 134mm x 3.2mm dia. (4.8mm transitional dia.)
HITEMP140-7:	7.0" x 0.188" dia. (178mm x 4.8mm dia.)

Weight:	4.2 oz (120g)
Material:	316 Stainless Steel
Approvals:	CE

BATTERY WARNING: *WARNING: FIRE, EXPLOSION, AND SEVERE BURN HAZARD. DO NOT SHORT CIRCUIT, CHARGE, FORCE OVER DISCHARGE, CRUSH, PENETRATE, OR INCINERATE. BATTERY MAY LEAK OR EXPLODE IF HEATED ABOVE 150ºC (302ºF).*

*SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE. SPECIFIC WARRANTY REMEDY LIMITATIONS APPLY. CALL 1-603-456-2011 OR GO TO WWW.MADGETECH.COM FOR DETAILS.

ORDERING INFORMATION

MODEL	DESCRIPTION	PRICE (U.S.)
HITEMP140-1	High Temperature Data Logger with a 1" probe	$499.00
HITEMP140-2/ HITEMP140-2-TD	High Temperature Data Logger with a 2" probe/ 2" transitional diameter probe	$499.00
HITEMP140-5.25/ HITEMP140-5.25-TD	High Temperature Data Logger with a 5.25" probe/ 5.25" transitional diameter probe	$499.00
HITEMP140-7	High Temperature Data Logger with a 7" probe	$499.00
IFC400	Docking station with USB cable, software and manual	$120.00
ER1425S-HT	Replacement battery for the HiTemp140	$50.00
*NIST	N.I.S.T. Calibration Certificate	$60.00

ASK ABOUT OUR OTHER DATA LOGGERS

Temperature
Humidity
Pressure
pH
Level
Shock
LCD Display
Pulse/Event/State
Current
Voltage
Wireless
Intrinsically Safe
Spectral Vibration
Motion

For Quantity Discounts call 603-456-2011 or email sales@madgetech.com

*To order the product with the N.I.S.T. certificate add *-CERT* to the end of the part number and add $60.00 to the price.