AUTOCLAVE TEMPERATURE DATA LOGGER

Digitron

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
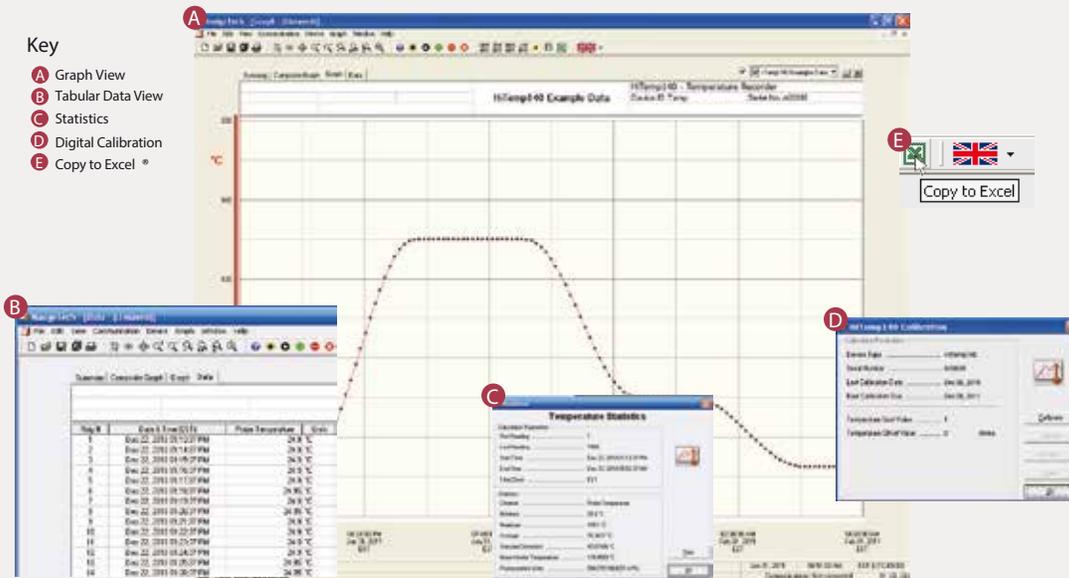- Dishwasher Testing
- Pasteurization

The HiTemp140 is a rugged, high precision, temperature data logger that is built for use in harsh environments. This stainless steel device is submersible, can withstand temperatures up to 140°C (284°F) and has an accuracy of +/-0.1°C (0.18°F) over the entire operating range.

The HiTemp140 can store up to 32,700 readings, and features a 2" rigid external probe capable of measuring extended temperatures, up to 260°C (500°F). Custom probe lengths are available upto 7", also 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 ®

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

Temperature Sensor:	100 Ω Platinum RTD	Battery Life:	1 year typical (1 minute reading rate at 25ºC/77ºF)
Probe Measurement Range:	-200ºC to +260ºC (-328ºF to +500ºF)	Calibration:	Digital calibration through software
Temperature Resolution:	0.01ºC (0.02ºF)	Calibration Date:	Automatically recorded within device
Calibrated Accuracy:	±0.1ºC/±0.18ºF (-20ºC to +140ºC/-4ºF to +284ºF)	Data Format:	Date and time stamped ºC, ºF, K, ºR
Start Modes:	• Software programmable immediate start • Delay start up to eighteen months in advance	Time Accuracy:	±1 minute/month at 20ºC to 30ºC (68ºF to 86ºF) (Stand alone mode)
Stop Modes:	• Manual through software • Timed (specific date and time)	Computer Interface:	IFC400 USB docking station required; 125,000 baud
Real Time Recording:	May be used with PC to monitor and record data in real time	Software:	XP SP3/Vista/Windows 7
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.	Operating Environment:	-20ºC to +140ºC (-4ºF to +284ºF), 0%RH to 100%RH
		Dimensions (Body):	2.7" x 0.97" dia. (67mm x 25mm dia.)
		Dimensions (Probe**):	2" x .188" to .125" transitional dia. 50mm x 3.8mm to 3.2mm transitional dia.
Memory:	32,700 readings	Weight:	4.2 oz (120g)
Wrap Around:	Yes	Material:	316 Stainless Steel
Reading Rate:	One second up to once every 24 hours	Approvals:	CE
Battery Type :	3.6V high-temperature lithium battery included; user replaceable		

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).*

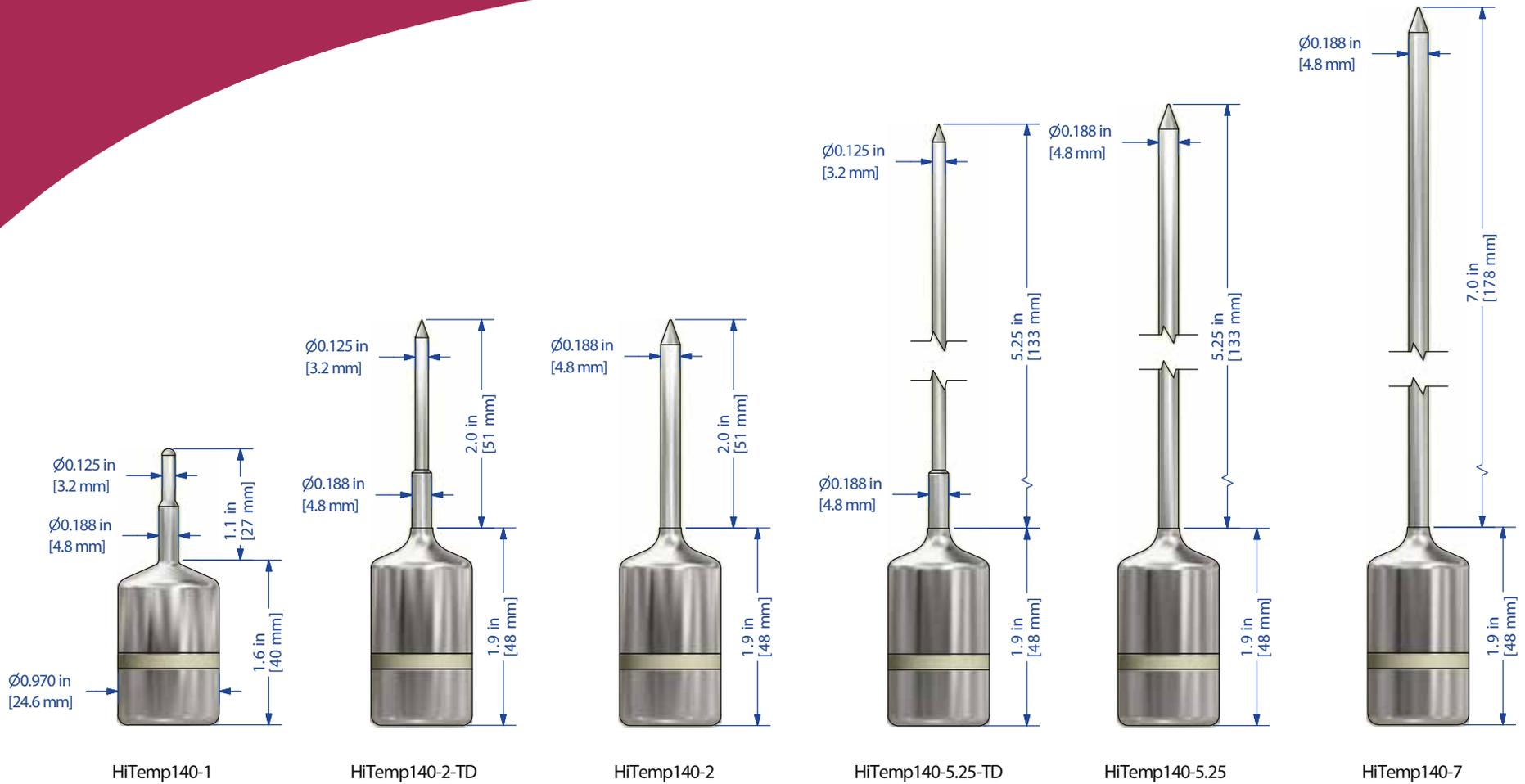**Other probe lengths up to 7" available. Contact MadgeTech for details.

ORDERING INFORMATION

MODEL	DESCRIPTION
HITEMP140	High Temperature Data Logger with a 2" probe
HITEMP140-1	High Temperature Data Logger with a 1" probe
HITEMP140-5.25	High Temperature Data Logger with a 5.25" probe
HITEMP140-7	High Temperature Data Logger with a 7" probe
IFC400	Docking station with USB cable, software and manual
ER1425S-HT	Replacement battery for the HiTemp140
*NIST	N.I.S.T. Calibration Certificate

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

High Temperature Data Loggers
Dimension Drawing

HiTemp140-1

Ø0.125 in [3.2 mm]
Ø0.188 in [4.8 mm]
1.1 in [27 mm]
1.6 in [40 mm]
Ø0.970 in [24.6 mm]

HiTemp140-2-TD

Ø0.125 in [3.2 mm]
2.0 in [51 mm]
Ø0.188 in [4.8 mm]
1.9 in [48 mm]

HiTemp140-2

Ø0.188 in [4.8 mm]
2.0 in [51 mm]
1.9 in [48 mm]

HiTemp140-5.25-TD

Ø0.125 in [3.2 mm]
Ø0.188 in [4.8 mm]
5.25 in [133 mm]
Ø0.188 in [4.8 mm]
1.9 in [48 mm]

HiTemp140-5.25

Ø0.188 in [4.8 mm]
5.25 in [133 mm]
1.9 in [48 mm]

HiTemp140-7

Ø0.188 in [4.8 mm]
7.0 in [178 mm]
1.9 in [48 mm]

Product:	Scale:	Materials:	Notes:
HiTemp140 Series	2 : 3	AISI 316 SS PEEK Silicone	