

Features

- Small diameter (2.6")
- Submersible
- Can withstand temperatures up to 250°C (482°F)

Applications

- Peanut roasting
- Extreme temperature monitoring
- Food processing
- Meat processing
- Autoclave validation
- Conveyer Ovens



The HiTemp150-TSK is a kit that includes a HiTemp150 data logger and thermal shield. This durable system can withstand temperatures up to 250°C (482°F).

The device is easy to use, simply activate the logger, open the enclosure, insert the HiTemp150, thread the probe through the end cap and latch it back onto the barrier body. The system is then ready to use.

The HiTemp150-TSK is built for applications that require extreme temperature monitoring, such as peanut roasting and food processing.

HITEMP150-TSK SPECIFICATIONS*

Operating Environment: -200 to +250°C (-328 to +482°F)
(Time limited)
0 to 100% RH

Dimensions: 2.1" x 2.6" dia.
53.34mm x 66mm dia.

IP Rating: IP68

Weight: 17 oz.

Ambient Temperature	Time In Air To Max Internal Temp (150°C / 302°F)	Time In Liquid To Max Internal Temp (150°C / 302°F)
-200°C (-328°F)	18 minutes	N/A
-180°C (-292°F)	19 minutes	N/A
-160°C (-256°F)	21 minutes	N/A
-140°C (-220°F)	24 minutes	N/A
-120°C (-184°F)	27 minutes	N/A
-100°C (-148°F)	32 minutes	N/A
-80°C (-112°F)	40 minutes	N/A
-60°C (-76°F)	55 minutes	25 minutes
-40°C to +150°C (-40°F to +302°F)	Indefinitely	Indefinitely
160°C (320°F)	75 minutes	34 minutes
170°C (338°F)	63 minutes	29 minutes
180°C (356°F)	55 minutes	26 minutes
190°C (374°F)	50 minutes	23 minutes
200°C (392°F)	45 minutes	21 minutes
210°C (410°F)	42 minutes	19 minutes
220°C (428°F)	39 minutes	18 minutes
230°C (446°F)	36 minutes	17 minutes
240°C (464°F)	34 minutes	16 minutes
250°C (482°F)	32 minutes	15 minutes

See page 2 for HiTemp150 specifications.

HITEMP150 SPECIFICATIONS (DATA LOGGER)*

Temperature Sensor: 100Ω Platinum RTD	Battery Type: 3.9V high-temperature lithium battery included
Probe Measurement Range: -200 to +260°C	Battery Life*: 1 year typical (1 minute reading rate @ 25°C)
Temperature Resolution: 0.05°C	Data Format: Date and time stamped °C, °F, K, °R
Calibrated Accuracy: ±0.5°C	Time Accuracy: ±1 minute/month at 20°C (RS232 cable not in use)
Start Modes: Software programmable immediate start or delay start up to six months in advance.	Computer Interface: PC serial or USB (Interface cable required); 2,400 baud
Real Time Recording: May be used with PC to monitor and record data in real time	Software: XP SP3/Vista/Windows 7
Memory: 32,767 readings	Operating Environment: -40 to +150°C (without thermal shield), 0 to 100%RH
Reading Rate: One second up to once every 12 seconds	Dimensions (Body): 1.1" x 1.75" dia. (28mm x 45mm dia.)
Calibration: Digital calibration through software	Dimensions (Probe): 2.0" x 3/16" dia. (50mm x 5mm dia.)
Calibration Date: Automatically recorded within device	Weight: 8 oz (225 g)
WARNING: FIRE, EXPLOSION, AND SEVERE BURN HAZARD. DO NOT SHORT CIRCUIT, CHARGE, FORCE OVERDISCHARGE, DISASSEMBLE, CRUSH, PENETRATE OR INCINERATE. BATTERY MAY LEAK OR EXPLODE IF HEATED ABOVE 150° C (302° F).	Material: 316 Stainless Steel
	Approvals: CE

*The user cannot replace battery.

SOFTWARE FEATURES

Multiple Graphs: Simultaneously analyze data from several units or deployments; easily switch to a single data series	Statistics: Calculate averages, min, max, standard deviation, and mean kinetic temperature with the touch of a button
Real-Time Recording: Collect and display data in real-time while continuing to log	Export Data: Export data in a variety of common formats, or switch to Excel® with a single click
Graphical Cursor: One click displays readings by time, value, parameter or sample number	Calibration: Automatically calculate and store calibration parameters
Data Table: Instantly access tabular view for detailed dates, times, values, and annotations	Logger Configuration: Easy set up and launch of data loggers with immediate or delayed start, preferred sample rate, and device ID
Scaling Options: Autoscale function fits data to the screen, or allows user to manually enter their own values	Communications: Automatically sets up communications port, or lets user select configuration
Formatting Options: Change colors, line styles, plotting options, show or hide channels quickly	Printing: Automatically print graphical or tabular data

ORDERING INFORMATION

<u>Model</u>	<u>Description</u>
HiTemp150-TSK	HiTemp150 data logger and thermal shield
IFC110	Software, manual and RS232 interface cable
IFC200	Software, manual and USB interface cable
NIST	N.I.S.T. Calibration Certificate
SVP –Secure	Protocols for validating the 21 CFR Part 11 ready, secure data logging system
SVP-Secure License	License for MadgeTech SVP-Secure Software (unlimited users, license per computer)

ASK ABOUT OUR OTHER DATA RECORDERS

Temperature	Pulse/Event/State
Humidity	Low Level Current
Pressure	Low Level Voltage
pH	RF Transmitters
Level	Intrinsically Safe
Shock	Spectral Vibration
LCD Display	