

# HITEMP150-TSK

## HITEMP150 DATA LOGGER WITH THERMAL SHIELD

### 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 (THERMAL SHIELD)\*

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

**IP Rating:** IP68

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

**Weight:** .65lb

Ambient Temperature	Time In Air To Max Internal Temp (150°C / 302°F)	Time In Liquid To Max Internal Temp (150°C / 302°F)
160°C (320°F)	75 mins	34 mins
170°C (338°F)	63 mins	29 mins
180°C (356°F)	55 mins	26 mins
190°C (374°F)	50 mins	23 mins
200°C (392°F)	45 mins	21 mins
210°C (410°F)	42 mins	19 mins
220°C (428°F)	39 mins	18 mins
230°C (446°F)	36 mins	17 mins
240°C (464°F)	34 mins	16 mins
250°C (482°F)	32 mins	15 mins

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

See page 2 for HiTemp150 specifications.

## HITEMP150 SPECIFICATIONS (DATA LOGGER)\*

<b>Temperature Sensor:</b> 100Ω Platinum RTD	<b>Battery Type:</b> 3.9V high-temperature lithium battery included
<b>Temperature Range:</b> -40 to +150°C (without thermal shield)	<b>Battery Life:</b> 1 year typical (1 minute reading rate @ 25°C)
<b>Temperature Resolution:</b> 0.05°C	<b>Data Format:</b> Date and time stamped °C, °F, K, °R
<b>Calibrated Accuracy:</b> ±0.5°C	<b>Time Accuracy:</b> ±1 minute/month at 20°C (RS232 cable not in use)
<b>Start Modes:</b> Software programmable immediate start or delay start up to six months in advance.	<b>Computer Interface:</b> PC serial or USB (Interface cable required); 2,400 baud
<b>Real Time Recording:</b> May be used with PC to monitor and record data in real time	<b>Software:</b> Windows 95/98/ME/NT/2000/XP/Vista based software
<b>Memory:</b> 32,767 readings	<b>Operating Environment:</b> -40 to +150°C (without thermal shield), 0 to 100%RH
<b>Reading Rate:</b> One second up to once every 12 seconds	<b>Dimensions (Body):</b> 1.1" x 1.75" dia. (28mm x 45mm dia.)
<b>Calibration:</b> Digital calibration through software	<b>Dimensions (Probe):</b> 2.0" x 3/16" dia. (50mm x 5mm dia.)
<b>Calibration Date:</b> Automatically recorded within device	✦ <i>Other probes available</i>
	<b>Weight:</b> 8 oz (225 g)
	<b>Material:</b> 316 Stainless Steel
	<b>Approvals:</b> CE

**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).

## SOFTWARE FEATURES

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

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## ORDERING INFORMATION

Model	Description	Price (U.S.)
HiTemp150-TSK	HiTemp150 data logger and thermal shield	\$549.00
IFC110	Software, manual and RS232 interface cable	\$99.00
IFC200	Software, manual and USB interface cable	\$119.00
NIST	N.I.S.T. Calibration Certificate	Call for Pricing
3B5700	Replacement battery for HiTemp150	\$99.00

### 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	

