

# HITEMP150-PT-TSK

## HITEMP150-PT DATA LOGGER WITH THERMAL SHIELD

### Features

- 24" Flexible Probe
- 1/4" Bending Radius
- -200 to +250°C Measurement Range
- High Accuracy
- Reusable
- Submersible
- N.I.S.T. Traceable

### Benefits

- Validate a variety of equipment with one data logger
- Minimal long-term maintenance
- No thermocouple wires

### Applications

- Autoclave Validation
- Food Preparation and Processing
- Pasteurization
- Oven Monitoring
- Smoke Houses

The HiTemp150-PT-TSK is a kit that includes a HiTemp150-PT data logger enclosed in a thermal shield. This durable system can withstand temperatures up to 250°C.

The thermal shield can be easily removed from the HiTemp150-PT, so it may be used as a standalone data logger also. Installing the data logger back into the thermal shield is simple, just open the enclosure, thread the probe through the end cap and fasten the thermal barrier together.

The HiTemp150-PT-TSK is submersible and has a 24" flexible, stainless steel probe. The probe is durable and can be spiraled, bent or angled in any direction, making it easy to log temperatures within bottles, vials or other hard to reach places.

The device can be started and stopped directly from a computer and the HiTemp150-PT-TSK's compact design and ultra flexible probe allows it to fit almost anywhere. The MadgeTech software allows users to view the data in graph and summary views and print professional reports.



## HITEMP150-PT-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:** 10.40 oz. (294.84g)

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

\*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-PT specifications.

# HITEMP150-PT SPECIFICATIONS\* (Without Thermal Shield)

<b>Temperature Sensor:</b> 100Ω Platinum RTD	<b>Data Format:</b> Date and time stamped °C, °F, K, °R
<b>Temperature Range:</b> -40 to +150°C	<b>Time Accuracy:</b> ±1 minute/month at 20°C (RS232 cable not in use)
<b>Temperature Resolution:</b> 0.05°C	<b>Computer Interface:</b> PC serial or USB (Interface cable required); 2,400 baud
<b>Calibrated Accuracy:</b> ±0.5°C	<b>Software:</b> XP SP3/Vista/Windows 7
<b>Start Modes:</b> Software programmable immediate start or delay start up to six months in advance.	<b>Operating Environment:</b> -40 to +150°C, 0 to 100%RH
<b>Real Time Recording:</b> May be used with PC to monitor and record data in real time	<b>Dimensions (Body):</b> 1.1" x 1.75" dia. (28mm x 45mm dia.)
<b>Memory:</b> 32,767 readings	<b>Dimensions (Probe):</b> Probe tip: 0.125"OD x 1.5"L Flexible portion: 24" x 0.062"OD dia.
<b>Reading Rate:</b> One second up to once every 12 hours	<b>Weight:</b> 8 oz (225 g)
<b>Calibration:</b> Digital calibration through software	<b>Material:</b> 316 Stainless Steel
<b>Calibration Date:</b> Automatically recorded within device	<b>Approvals:</b> CE
<b>Battery Type:</b> 3.9V high-temperature lithium battery included	
<b>Battery Life*:</b> 1 year typical (1 minute reading rate @ 25°C)	

\*The device must be sent back to MadgeTech for battery replacement.

**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-PT-TSK	HiTemp150-PT data logger with thermal shield	\$549.00
HITEMP150-PT-TSK-CERT	HiTemp150-PT data logger with thermal shield and N.I.S.T. Certificate	\$609.00
IFC110	Software, manual and RS232 interface cable	\$99.00
IFC200	Software, manual and USB interface cable	\$119.00
SVP –Secure	Protocols for validating the 21 CFR Part 11 ready, secure data logging system	\$600.00
SVP-Secure License	License for MadgeTech SVP-Secure Software (unlimited users, license per computer)	\$1000.00

### 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	

