

**Features**

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

**Applications**

- Food processing
- Meat processing
- Extreme temperature monitoring
- Conveyor Ovens



The HiTemp150FP-TSK is a kit that includes a HiTemp150FP 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 and place in the monitoring area. When

monitoring is complete, data can be downloaded to a computer for analysis and record keeping.

The HiTemp150FP-TSK is built for applications that require extreme temperature monitoring, such as with food and meat processing. It can be run through the entire cooking and cooling process to provide a thorough temperature profile for analysis.

**HITEMP150FP-TSK SPECIFICATIONS\***

**Operating Environment:** -40 to +250°C (-40 to +482°F)  
(Time limited)  
0 to 95% RH

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

**Weight:** 19.4 oz.

| Ambient Temperature           | Time In Air To Max Internal Temp<br>(150°C / 302°F) |
|-------------------------------|-----------------------------------------------------|
| -40 to +150°C (-40 to +302°F) | Indefinitely                                        |
| 160°C (320°F)                 | 75 mins                                             |
| 170°C (338°F)                 | 63 mins                                             |
| 180°C (356°F)                 | 55 mins                                             |
| 190°C (374°F)                 | 50 mins                                             |
| 200°C (392°F)                 | 45 mins                                             |
| 210°C (410°F)                 | 42 mins                                             |
| 220°C (428°F)                 | 39 mins                                             |
| 230°C (446°F)                 | 36 mins                                             |
| 240°C (464°F)                 | 34 mins                                             |
| 250°C (482°F)                 | 32 mins                                             |

See page 2 for HiTemp150FP specifications.

## HITEMP150FP SPECIFICATIONS\*

|                                                                                                                                |                                                                                                                     |
|--------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------|
| <b>Temperature Sensor:</b> 100Ω Platinum RTD                                                                                   | <b>*Data Format:</b> Date and time stamped °C, °F, K, °R                                                            |
| <b>Probe Measurement Range:</b> -40 to +260°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 (Over 100°C span)                                                                           | <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 95% RH non-condensing                                             |
| <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 (Cable*):</b> 2.0' x .14" dia. (610 mm x 4mm dia.)                                                    |
| <b>Reading Rate:</b> One second up to once every 12 hours                                                                      | <b>Dimensions (Probe Handle):</b> 1½" x 3/8" dia. (39mm x 10 mm dia.)                                               |
| <b>Lethality Equations:</b> Sterilization unit and Pasteurization units are available in the software with a click of a button | <b>Dimensions (Probe):</b> 4" x 1/8" dia. (102mm x 4mm dia.)<br><i>(Other Probe lengths available upon request)</i> |
| <b>Calibration:</b> Digital calibration through software                                                                       | <b>Material (Body &amp; Probe):</b> 316 stainless steel                                                             |
| <b>Calibration Date:</b> Automatically recorded within device                                                                  | <b>Material (Cable):</b> Silicone rubber                                                                            |
| <b>Battery Type:</b> 3.9V high-temperature lithium battery included                                                            | <b>Approvals:</b> CE                                                                                                |
| <b>Battery Life*:</b> 1 year typical (1 min. reading rate @ 25°C)                                                              | <b>Weight:</b> 9 oz (255 g)                                                                                         |

## 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 average, 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>Printing:</b> Automatically print graphical or tabular data                                                                            |
| <b>Formatting Options:</b> Change colors, line styles, plotting options, show or hide channels quickly                       |                                                                                                                                           |

## ORDERING INFORMATION

| <u>Model</u>       | <u>Description</u>                                                                |
|--------------------|-----------------------------------------------------------------------------------|
| HITEMP150FP-TSK    | HiTemp150FP with 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 |                    |