HITEMP150-PT-TSK
HITEMP150-PT DATA LOGGER WITH THERMAL SHIELD

MADGETECH
WE BUILD DATA LOGGERS

Features
- Small diameter (2.6 inches)
- 24 inch Flexible Probe
- Submersible
- Immediate or Delay Start
- Can withstand temperatures up to 250 °C (482 °F)

Benefits
- Simple Setup and Installation
- HiTemp150-PT can be used with or without Thermal Shield
- Durable Thermal Shield Protects Probe and Allows for a Fast Response Time
- Long-Term Field Deployment
- Minimal Long-Term Maintenance

Applications
- Food Processing
- Meat Processing
- Extreme Temperature Monitoring
- Conveyer Ovens
- Autoclave Validation

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. Installing the data logger back into the thermal shield is simple, just open the enclosure, thread the probe through the opening and fasten the thermal barrier back together.

The HiTemp150-PT-TSK is submersible and has a 24 inch flexible, stainless steel probe. The probe is durable and can be spiraled, bent, or angled in any direction, making it easy to log temperature within bottles, vials, or other hard to reach places.
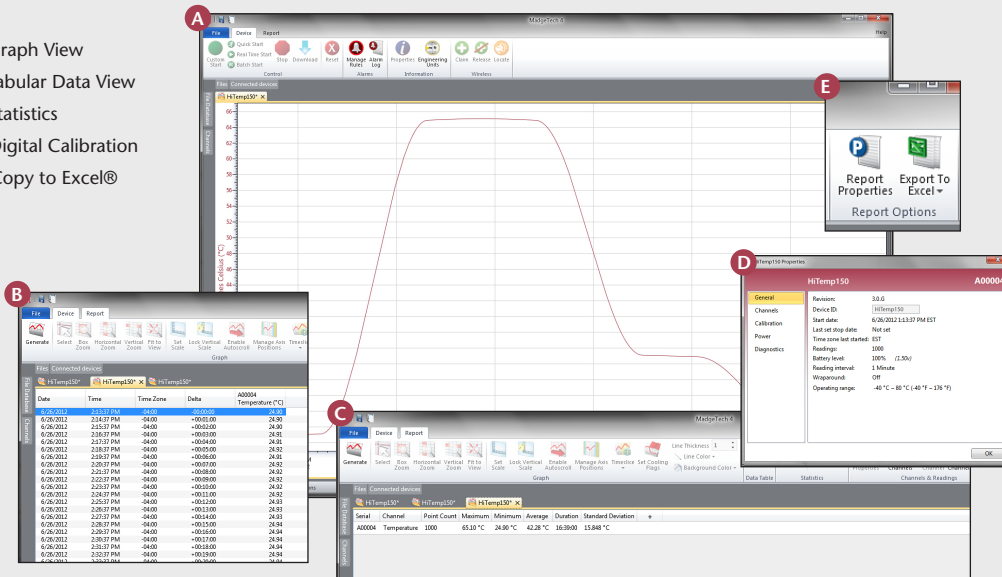
The device can be started and stopped directly from a computer and the HiTemp150-PT-TSK's compact design and ultra flexible probe allows it to fit almost anywhere. The MadgeTech software allows users to view the data in graph and summary views, and print professional reports.

MADGETECH DATA LOGGER SOFTWARE

Key
- **A** Graph View
- **B** Tabular Data View
- **C** Statistics
- **D** Digital Calibration
- **E** Copy to Excel®

Software Features:
- Multiple graph overlay
- Statistics
- Digital calibration
- Zoom in/ zoom out
- Lethality equations (F0, PU)
- Mean Kinetic Temperature
- Full time zone support
- Data annotation
- Min./Max./Average lines
- Data table view
- Automatic report generation
- Summary view
- Multilingual

HITEMP150-PT-TSK SPECIFICATIONS (DATA LOGGER)*

Temperature Sensor:	100 Ω Platinum RTD
Temperature Range:	-40 ℃ to +150 ℃
Temperature Resolution:	0.05 ℃
Calibrated Accuracy:	±0.5 ℃
Start Modes:	Software programmable immediate start or delay start up to six months in advance
Real Time Recording:	May be used with PC to monitor and record data in real time
Memory:	32,767 readings
Reading Rate:	1 reading every second up to 1 reading every 24 hours
*Battery Type:	3.6V high-temperature lithium battery included *Must be sent to MadgeTech for battery replacement.
Battery Life:	1 year typical (1 minute reading rate @ 25 ℃)

Calibration:	Digital calibration through software
Calibration Date:	Automatically recorded within device
Data Format:	Date and time stamped ℃, °F, K, °R
Time Accuracy:	±1 minute/month at 20 ℃ (RS232 cable not in use)
Computer Interface:	PC serial or USB (Interface cable required); 2,400 baud
Software:	XP SP3/Vista/Windows 7/Windows 8
Operating Environment:	-20 ℃ to +150 ℃, 0 %RH to 100 %RH
Dimensions (Body):	1.1 in x 1.75 in dia. (28 mm x 45 mm dia.)
Dimensions (Probe)*:	Probe tip: 0.125 in OD x 1.5 in L Flexible portion: 24 in x 0.062 in OD dia.
Weight:	8 oz (225 g)
Material:	316 Stainless Steel
Approvals:	CE

BATTERY 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).

HITEMP150-PT-TSK SPECIFICATIONS*

Operating Environment:	-200 ℃ to +250 ℃ (-328 °F to +482 °F) Time limited, 0 %RH to 100 %RH
Dimensions:	2.1 in x 2.6 in dia. (53.34 mm x 66 mm dia.)
Material:	Enclosure: PTFE
Weight:	10.40 oz. (294.84 g)
IP Rating:	IP68

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

Ambient Temperature	Exposure Time In Air	Exposure Time In Liquid
-200 ℃ (-328 °F)	18 minutes	N/A
-180 ℃ (-292 °F)	19 minutes	N/A
-160 ℃ (-256 °F)	21 minutes	N/A
-140 ℃ (-220 °F)	24 minutes	N/A
-120 ℃ (-184 °F)	27 minutes	N/A
-100 ℃ (-148 °F)	32 minutes	N/A
-80 ℃ (-112 °F)	40 minutes	N/A
-60 ℃ (-76 °F)	55 minutes	25 minutes
-40 ℃ (-40 °F)	70 minutes	32 minutes
-20 ℃ to +140 ℃ (-4 °F to +284 °F)	Indefinitely	Indefinitely
150 ℃ (302 °F)	88 minutes	40 minutes
160 ℃ (320 °F)	75 minutes	34 minutes
170 ℃ (338 °F)	63 minutes	29 minutes
180 ℃ (356 °F)	55 minutes	26 minutes
190 ℃ (374 °F)	50 minutes	23 minutes
200 ℃ (392 °F)	45 minutes	21 minutes
210 ℃ (410 °F)	42 minutes	19 minutes
220 ℃ (428 °F)	39 minutes	18 minutes
230 ℃ (446 °F)	36 minutes	17 minutes
240 ℃ (464 °F)	34 minutes	16 minutes
250 ℃ (482 °F)	32 minutes	15 minutes

ORDERING INFORMATION

MODEL	DESCRIPTION	PRICE (U.S.)
HITEMP150-PT-TSK	HiTemp150-PT data logger and thermal shield	$599.00
IFC110	Software and RS232 interface cable	$99.00
IFC200	Software and USB interface cable	$119.00
*NIST	NIST Calibration Certificate	$60.00

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

For Quantity Discounts call 603-456-2011 or email sales@madgetech.com

*To order the product with the NIST certificate add -CERT to the end of the part number and add $60.00 to the price.