THERMOVAULT OVEN TEMPERATURE PROFILER



Features

- 10 Year Battery Life
- 1 Second Reading Rate
- Multiple Start/Stop Function
- Ultra High Speed Download
- 500,000 Reading Storage Capacity
- Memory Wrap
- Battery Life Indicator
- Optional Password Protection
- Programmable High and Low Alarms
- Field Upgradeable

Benefits

- Simple Setup and Installation
- Minimal Long-Term Maintenance
- Long-Term Field Deployment

Applications

- Extreme Temperature Monitoring
- Oven Profiling
- Powder Coating Cure Ovens
- Wet Coating Cure Ovens
- Conveyor Ovens
- Food Processing

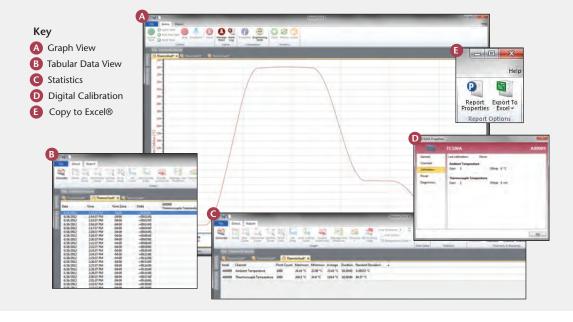
The ThermoVault is a thermally insulated, battery powered, stand alone, thermocouple based temperature data logger used for the thermal profiling of ovens. The device records temperature data inside an oven to be later downloaded from to the user's PC.

The ThermoVault will measure and record up to 500,000 measurements per channel. It can withstand an oven temperature of up to 300 °C (572 °F) for up to 36 minutes when properly



sealed. The devices real time clock ensures that all data is time and date stamped. The storage medium is non-volatile solid state memory, providing maximum data security even if the battery becomes discharged. The device can be started and stopped directly from your computer and its small size allows it to fit almost anywhere. The ThermoVault makes data retrieval quick and easy. Simply plug it into an empty USB port and our user-friendly software does the rest.

MADGETECH DATA LOGGER SOFTWARE



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

THERMOVAULT SPECIFICATIONS*

*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.

Internal Channel	
Temperature Range:	-40 °C to +80 °C (-40 °F to +176 °F)
Temperature Resolution:	0.1 °C (0.18 °F)
Calibrated Accuracy:	±0.25 °C (±0.45 °F)
Remote Channel	
Thermocouple Included:	Type K, 36 inch length
Thermocouple Connection:	Fixed screw terminal (ST model)
Cold Junction Compensation:	Automatic based on internal channel
Max. Thermocouple Resistance:	100 Ω
Maximum Exposure Time (based on initial temperature of 25 °C/77 °F)	

Ambient Temperature (°C)	Maximum Duration in Minutes
100 °C (212 °F)	136
125 °C (257 °F)	100
150 °C (302 °F)	80
175 °C (347 °F)	66
200 °C (392 °F)	56
225 °C (437 °F)	49
250 °C (500 °F)	44
275 °C (527 °F)	39
300 °C (572 °F)	36
325 °C (617 °F)	32
350 °C (662 °F)	30

Reading Rate:	1 reading every second up to 1 reading every 24 hours
Memory:	500,000 readings; software configurable memory wrap 250,000 readings in multiple start/stop mode
Wrap Around:	Yes
Start Modes:	Immediate startDelay start up to 18 monthsMultiple pushbutton start/stop
Multiple Start/Stop Mode:	Start and stop the device multiple times without having to download data or communicate with a PC
Multiple Start/Stop Mode Activation:	To start the device: Press and hold the pushbutton for 5 seconds, the green LED will flash during this time. The device has started logging. To stop the device: Press and hold the pushbutton for 5 seconds, the red LED will flash during this time. The device has stopped logging.

Real Time Recording:	The device may be used with PC to monitor and record data in real time	
Alarm:	Programmable high and low limits; alarm is activated when temperature reaches or exceeds set limits	
LED Functionality:	 Green LED blinks: 10 second rate to indicate logging 15 second rate to indicate delay start mode Red LED blinks: 10 second rate to indicate low battery and/or full memory 1 second rate to indicate an alarm condition 	
Password Protection:	An optional password may be programmed into the device to restrict access to configuration options. Data may be read out without the password.	
Battery Type:	3.6V lithium battery included; user replaceable	
Battery Life:	TC101A TC101A	
Data Format:	Date and time stamped °C, °F, K, °R; µV, mV, V	
Time Accuracy:	± 1 minute/month (at +20 °C (+68 °F), stand alone data logging)	
Computer Interface:	USB (interface cable required); 115,200 baud	
Software:	XP SP3/Vista/Windows 7/Windows 8	
Operating Environment:	 Data Logger: -40 °C to +80 °C (-40 °F to +176 °F), 0 %RH to 95 %RH non-condensing System: -40 °C to +400 °C (-40 °F to +752 °F) time limited, 0 %RH to 95 %RH non-condensing 	
Dimensions:	5.1 in x 4.5 in x 2.5 in (129 mm x 113 mm x 64 mm)	
Weight: 3.5 lbs (1590 g)		
BATTERY WARNING: FIRE, EXPLOSION, AND SEVERE BURN HAZARD. DO NOT SHORT CIRCUIT,		

BATTERY WARNING: FIRE, EXPLOSION, AND SEVERE BURN HAZARD. DO NOT SHORT CIRCUIT, CHARGE, FORCE OVER DISCHARGE, DISASSEMBLE, CRUSH, PENETRATE OR INCINERATE. BATTERY MAY LEAK OR EXPLODE IF HEATED ABOVE 80°C (176°F).

ORDERING INFORMATION

MODEL	DESCRIPTION
THERMOVAULT	Oven Temperature Profiler
IFC200	Software, Manual and USB interface cable
Calibration Certificate	Calibration Certificate available for data logger
LTC-7PN	Replacement battery for ThermoVault

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

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