THERMOVAULT OVEN TEMPERATURE PROFILER



Features

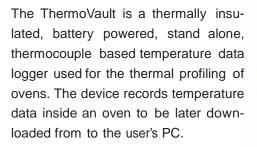
- 10 Year Battery Life
- 1 Second Reading Rate
- Multiple Start/Stop Function
- Ultra High Speed Download
- 500,000 Reading Storage Capacity
- Memory Wrap
- Battery Life Indicator
- Optional Password Protection
- Programmable High and Low Alarms
- NIST Traceable
- Field Upgradeable

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

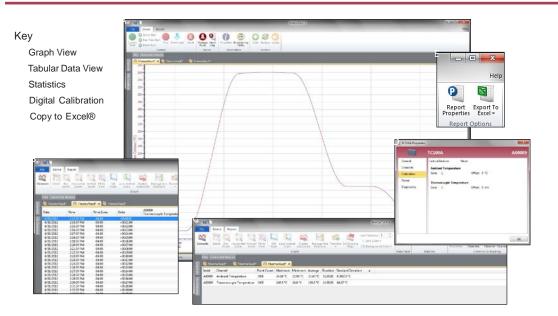


The ThermoVault will measure and record up to 500,000 measurements per channel. It can withstand an oven temperature of up to 300 °C (572 °F) for up to 36 minutes when properly



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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

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THERMOVAULT SPECIFICATIONS*

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	
Mayimum Experies Time (heard on initial terms exeture of 25 °C/77 °E)		

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 Yes 	
Wrap Around:		
Start Modes:	 Immediate start Delay start up to 18 months Multiple 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.	

*SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE. SPECIFIC WARRANTY REMEDY LIMITATIONS APPLY.

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		
	10 years typical at a 15 minute reading rate		
Battery Life:	Graph display of the device recording in a 25 °C/77 °F environment.		
Data Farmati			
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, CHARGE, FORCE OVER DISCHARGE, DISASSEMBLE, CRUSH, PENETRATE OR INCINERATE. BATTERY MAY LEAK OR EXPLODE IF HEATED ABOVE 80°C (176°F).

Motion

ORDERING INFORMATION

	MATION		Temperature
MODEL	DESCRIPTION	ASK ABOUT OUR OTHER DATA	Humidity Pressure pH
THERMOVAULT	Oven Temperature Profiler	LOGGERS	Level Shock
IFC200	Software, Manual and USB interface cable		LCD Display ulse/Event/State
*NIST	NIST Calibration Certificate	V	Current oltage Wireless
LTC-7PN	Replacement battery for ThermoVault	In	ntrinsically Safe

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