OCTTHERMOVAULT
8 CHANNEL OVEN TEMPERATURE DATA LOGGER

Features

- NIST traceable
- Programmable start time
- Reusable
- Convenient size
- User-friendly
- Automatic cold junction compensation
- Automatic thermocouple linearization
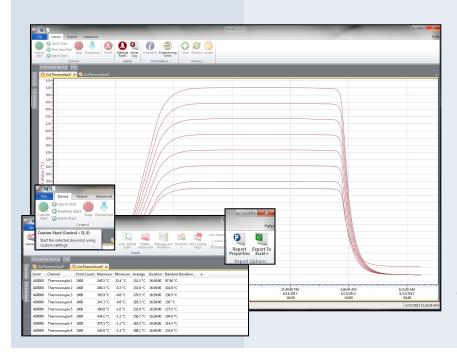- Type K thermocouples and power supply included

Applications

- Extreme temperature monitoring
- Oven profiling
- Powder coating cure ovens
- Wet coating cure ovens
- Batch ovens
- Conveyor ovens
- Implement HACCP programs

Oven temperature profiling can help ensure that a quality product is consistently produced. Profiling enables users to optimize their process, prove process control and make corrections to a process when required. The OctThermoVault is an eight channel thermally insulated, battery powered, oven temperature recorder able to withstand extreme temperatures. It can withstand oven temperatures of up to 662°F for up to 25 minutes when properly sealed. Its stainless steel enclosure and thermal properties lend itself to be the ideal temperature recording device for applications such as powder coating cure ovens, wet coating cure ovens, batch ovens and conveyor ovens. The external thermocouple probes provide accurate temperature measurements, with fast response times. Our user-friendly software easily downloads the data to a computer, where the readings may be displayed in degrees Celsius, degrees Fahrenheit, Kelvin or Rankine. The software allows the user to view all data points or a range of data points and a summary of the data being viewed for calculations such as Mean Kinetic Temperature (MKT). If additional analysis of the data needs to be performed, the data can be easily exported to Excel® by simply clicking a button.

MadgeTech Data Recorder Software displays temperature data in an easy to use graph.

The Windows®-based software package allows the user to effortlessly collect, display and analyze data. A variety of powerful tools allow you to examine, export, and print professional looking data with just a click of the mouse.

Click MadgeTech Software for more information or to download the software.

OCTTHERMOVAULT SPECIFICATIONS*

4 Internal Channels

Temperature Range: -20ºC to +60ºC

Temperature Resolution: 0.05ºC

Calibrated Accuracy: ±0.5ºC (0 to +50ºC)

8 Remote Channels

Thermocouple Types: J, K, T, E, R, S, B, N

Thermocouple connection: Female subminiature (SMP)

Cold Junction Compensation: Automatic, based on internal channel

Maximum Exposure Time	
Ambient Temperature	Maximum Duration in Minutes
100 ºC (212 ºF)	110
150 ºC (302 ºF)	62
200 ºC (392 ºF)	45
250 ºC (482 ºF)	35
260 ºC (500 ºF)	33
300 ºC (572 ºF)	30
350 ºC (662 ºF)	25

BATTERY WARNING: DISCARD USED BATTERY PROMPTLY. DO NOT DISPOSE OF IN FIRE, RECHARGE, PUT IN BACKWARDS, DISASSEMBLE, OR MIX WITH OTHER BATTERY TYPES. MAY EXPLODE, FLAME OR LEAK AND CAUSE PERSONAL INJURY.

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: 500,000 readings per channel, channels can be disabled to increase memory

Reading Rate: 4 readings per second up to 1 every 24 hours

Calibration: Digital calibration through software

Calibration Date: Automatically recorded within device

Battery Type: 9V lithium or alkaline battery included, user replaceable

Battery Life: 18 months typical

Data Format: Date and time stamped °C, °F, °K, °R; μV, mV, V

Time Accuracy: ±1 minute/month (at 20°C, RS232 port not in use)

Computer Interface: USB (cable required);115,200 baud

Software: XP SP3/Vista/Windows 7

Operating Environment: See table for temperature, 0 to 95%RH non-condensing

Internal OctTemp: -20 to +55°C, 0 to 95%RH non-condensing

OctThermoVault System: -20 to +350°C, 0 to 95%RH non-condensing

Weight: 8.98 lb (4.07 kg)

Dimensions: **12.3" x 6.65" x 2.45" (723mm x 168mm x 62mm)**
[Includes handles, brackets and front enclosure latches]

9.1" x 5.9" x 2.45" (231mm x 149mm x 62mm)
[Enclosure case only. Excludes handles, brackets and latches]

SOFTWARE FEATURES

Multiple Graphs: Simultaneously analyze data from several units or deployments; easily switch to a single data series

Graphical Cursor: One click displays readings by time, value, parameter or sample number

Data Table: Instantly access tabular view for detailed dates, times, values, and annotations

Scaling Options: Autoscale function fits data to the screen, or allows user to manually enter their own values

Formatting Options: Change colors, line styles, plotting options, show or hide channels quickly

Statistics: Calculate averages, min, max, standard deviation, and mean kinetic temperature with the touch of a button

Export Data: Export data in a variety of common formats, or switch to Excel® with a single click

Calibration: Automatically calculate and store calibration parameters

Logger Configuration: Easy set up and launch of data loggers with immediate or delayed start, preferred sample rate, and device ID

Communications: Automatically sets up communications port, or lets user select configuration

ORDERING INFORMATION

Model	Description	Price (U.S.)
OCTTHERMOVAULT	8-Channel Oven Temperature Recorder (72" type K thermocouples and AC power supply included)	
IFC200	Software, manual and USB interface cable	
NIST	NIST Calibration Certificate	Call for Pricing
U9VL-J	Replacement battery for OctThermoVault	

ASK ABOUT OUR OTHER DATA LOGGERS

Temperature	Pulse/Event/State
Humidity	Low Level Current
Pressure	Low Level Voltage
pH	RF Transmitters
Level	Intrinsically Safe
Shock	Spectral Vibration
LCD Display	

MadgeTech
WE BUILD DATA LOGGERS