

# OCTHERMOVAULT

## 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 LOGGER SOFTWARE

**Key**

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

Serial	Channel	Point Count	Maximum	Minimum	Average	Duration	Standard Deviation
A00000	Thermocouple 1	3000	240.5 °C	22.4 °C	151.3 °C	16:39:00	97.56 °C
A00000	Thermocouple 2	3000	260.3 °C	-0.7 °C	153.8 °C	16:39:00	116.8 °C
A00000	Thermocouple 3	3000	363.8 °C	-8.8 °C	178.5 °C	16:39:00	136.1 °C
A00000	Thermocouple 4	3000	347.2 °C	-8.2 °C	165.1 °C	16:39:00	116 °C

- 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

# OCTTHERMOVAULT SPECIFICATIONS\*

<b>8 Internal Channels</b>	
Temperature Range:	-20 °C to +60 °C
Temperature Resolution:	0.05 °C
Calibrated Accuracy:	±0.5 °C (0 °C to +50 °C)
<b>8 Remote Channels</b>	
Thermocouple Types:	J, K, T, E, R, S, B, N
Thermocouple Connection:	Female subminiature (SMP)
Cold Junction Compensation:	Automatic, based on internal channel
<b>Maximum Exposure Time</b>	
<b>Ambient Temperature</b>	<b>Maximum Duration in Minutes</b>
100 °C (212 °F)	110
150 °C (302 °F)	62
200 °C (392 °F)	45
250 °C (482 °F)	35
260 °C (500 °F)	33
300 °C (572 °F)	30
350 °C (662 °F)	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.

<b>Start Modes:</b>	Software programmable immediate start or delay start up to six months in advance
<b>Real Time Recording:</b>	May be used with PC to monitor and record data in real time
<b>Memory:</b>	500,000 readings per channel, channels can be disabled to increase memory
<b>Reading Rate:</b>	4 readings every second up to 1 reading every 24 hours
<b>Calibration:</b>	Digital calibration through software
<b>Calibration Date:</b>	Automatically recorded within device
<b>Battery Type:</b>	9V lithium or alkaline battery included, <b>user replaceable</b>
<b>Battery Life:</b>	18 months typical
<b>Data Format:</b>	Date and time stamped °C, °F, °K, °R; µV, mV, V
<b>Time Accuracy:</b>	±1 minute/month (at 20 °C, RS232 port not in use)
<b>Computer Interface:</b>	USB (cable required); 115,200 baud
<b>Software:</b>	XP SP3/Vista/Windows 7/Windows 8
<b>Operating Environment:</b>	See table for temperature, 0 %RH to 95 %RH non-condensing
<b>Internal OctTemp:</b>	-20 °C to +55 °C, 0 %RH to 95 %RH non-condensing
<b>OctThermoVault System:</b>	-20 °C to +350 °C, 0 %RH to 95 %RH non-condensing
<b>Weight:</b>	8.98 lb (4.07 kg)
<b>Dimensions:</b>	12.3 in x 6.65 in x 2.45 in (723 mm x 168 mm x 62 mm) [Includes handles, brackets and front enclosure latches] 9.1 in x 5.9 in x 2.45 in (231 mm x 149 mm x 62 mm) [Enclosure case only. Excludes handles, brackets and latches]

## ORDERING INFORMATION

MODEL	DESCRIPTION	PRICE (U.S.)
OCTTHERMOVAULT	8-Channel Oven Temperature Recorder (72" type K thermocouples and AC power supply included)	\$1,699.00
IFC200	Software, manual and USB interface cable	\$119.00
NIST	NIST Calibration Certificate	Call for Pricing
U9VL-J	Replacement battery for OctThermoVault	\$15.00

**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