

# QUADTHERMOVAULT

## 4 CHANNEL OVEN TEMPERATURE DATA LOGGER



### Features

- 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 QuadThermoVault is a four 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.

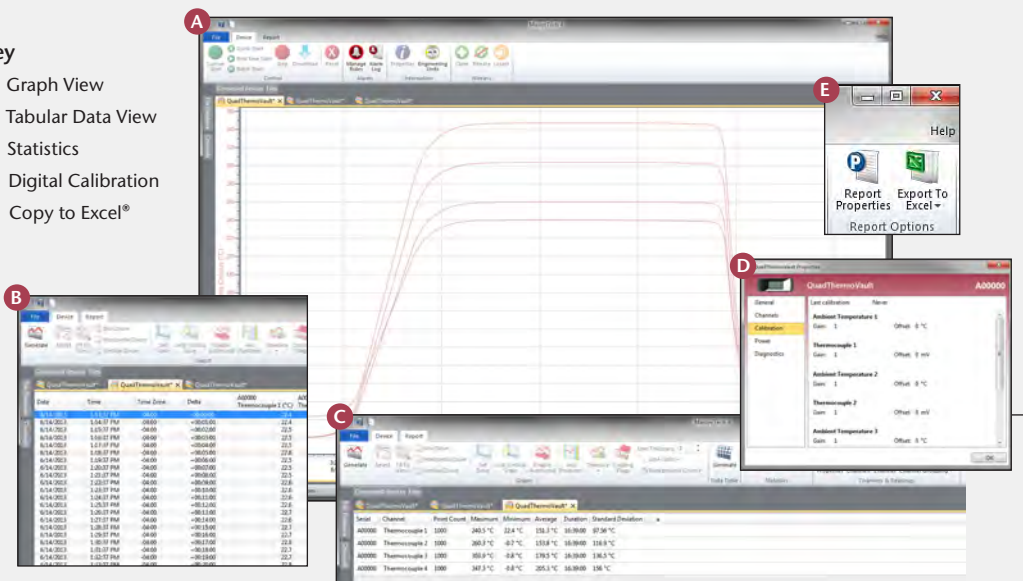


Our user-friendly software easily downloads the data to a computer, where the readings may be displayed in degrees Celsius, degrees Fahrenheit, Kelvin or Rankine. The software allows the user to view all data points or a range of data points and a summary of the data being viewed for calculations such 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®



### 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

# QUADTHERMOVAULT SPECIFICATIONS\*

<b>4 Internal Channels</b>	
<b>Temperature Range:</b>	-20 °C to +60 °C
<b>Temperature Resolution:</b>	0.01 °C
<b>Calibrated Accuracy:</b>	±0.5 °C (0 °C to +50 °C)
<b>4 Remote Channels</b>	
<b>Thermocouple Types:</b>	J, K, T, E, R, S, B, N
<b>Thermocouple Connection:</b>	Female subminiature (SMP)
<b>Cold Junction Compensation:</b>	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:** BATTERY MAY LEAK, FLAME OR EXPLODE IF DISASSEMBLED, SHORTED, CHARGED, CONNECTED TOGETHER, MIXED WITH USED OR OTHER BATTERIES, EXPOSED TO FIRE OR HIGH TEMPERATURE. DISCARD USED BATTERY PROMPTLY. KEEP OUT OF REACH OF CHILDREN.

<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> (all 4 channels enabled)	65,471 readings per channel; 261,887 total readings
<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
<b>Computer Interface:</b>	USB (cable required); 115,200 baud
<b>Software:</b>	Windows XP SP3 or later
<b>Operating Environment:</b>	See table for temperature, 0 %RH to 95 %RH non-condensing
<b>Internal QuadTemp:</b>	-20 °C to +55 °C, 0 %RH to 95 %RH non-condensing
<b>QuadThermoVault System:</b>	-20 °C to +350 °C, 0 %RH to 95 %RH non-condensing
<b>Weight:</b>	8.85 lb (4.01 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	PART NUMBER	DESCRIPTION
QUADTHERMOVAULT	901350-00	4-Channel Oven Temperature Recorder (72" type K thermocouples and AC power supply included)
IFC200	900298-00	Software, manual and USB interface cable
U9VL-J	901804-00	Replacement battery for QuadThermoVault

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