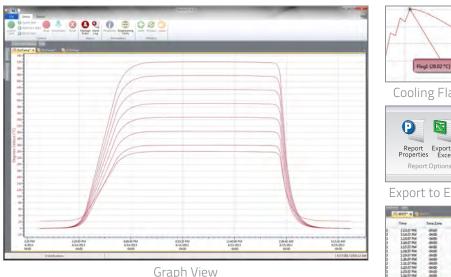


ThermoVaultX Series 4 and 8-Channel Thermocouple Data Loggers

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 ThermoVaultX Series is a 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.







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



- 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
- Summary view



Automation

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SPECIFICATIONS

Specifications are subject to change without notice. Specific warranty remedy limitations apply.

INTERNAL CHANNELS		
Temperature Range	-20 °C to +60 °C (-4 °F to +140 °F)	
Temperature Resolution	0.01 °C (0.018 °F)	
Calibrated Accuracy	±0.5 °C (0 °C to 50 °C)	

REMOTE CHANNELS

Remote Channel Thermocouple Types	J, K, T, E, R, S, B, N			
Thermocouple Connection	Female subminiature (SMP)			
Cold Junction Compensation	Automatic, based on internal channel			
Thermocouple	Range (°C)	Resolution	Accuracy*	
J	-210 to +760	0.1 °C	±0.5 °C	
К	-270 to +1370	0.1 °C	±0.5 °C	
Т	-270 to +400	0.1 °C	±0.5 °C	
E	-270 to +980	0.1 °C	±0.5 °C	
R	-50 to +1760	0.5 °C	±2.0 °C	
S	-50 to +1760	0.5 °C	±2.0 °C	
В	+50 to +1820	0.5 °C	±2.0 °C	
Ν	-270 to +1300	0.1 °C	±0.5 °C	

*Thermocouple accuracy specified with 24 AWG diameter thermocouple wires.

MAXIMUM EXPOSURE TIME

Ambient Temperature	Maximum Duration in Minutes
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

GENERAL			
Start Modes	Push button start and software programmable immediate start or delay start up to six months in advance		
Memory (all channels enabled)	4-channel: 524,032 readings per channel8-channel: 262,016 readings per channel		
LEDs	1 per channel and 2 status LEDs		
Reading Rate	4 Hz up to 1 reading every 24 hours		
Calibration	Digital calibration through software		
Calibration Date	Automatically recorded within device		
Battery Type	9 V lithium battery included, user replaceable		
Battery Life	18 months typical		
Data Format	Date and time stamped °C, °F, K, °R, mV, V		
Time Accuracy	±1 minute/month		
Computer Interface	USB-A to micro USB cable (included); 460,800 baud		
Operating System Compatibility	Windows XP SP3 or later		
Software Compatibility	Standard Software version 4.2.17.0 or later Secure Software version 4.2.16.0 or later		
Operating Environment	See table for temperature 0 %RH to 95 %RH non-condensing		
Internal TCTempX	-20 °C to +60 °C 0 %RH to 95 %RH non-condensing		
ThermoVaultX System	-20 °C to +350 °C 0 %RH to 95 %RH non-condensing		
Dimensions	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]		
Weight	4-channel: 8.85 lb (4.01 kg) 8-channel: 8.98 lb (4.07 kg)		

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.

Ordering Information

ThermoVaultX4	PN 901350-00	4-Channel Oven Temperature Recorder, 72 inch type K thermocouples , USB-A to micro USB cable, universal power adapter
ThermoVaultX8	PN 900437-00	8-Channel Oven Temperature Recorder, 72 inch type K thermocouples , USB-A to micro USB cable, universal power adapter
U9VL-J	PN 901804-00	Replacement battery for TCTempX Series



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