ThermoWorks

ThermoWorks LogMaster

THERMOVAULT1000-P

THERMAL BARRIER SYSTEM WITH TEMP1000P

Features

- 304 Stainless Steel Enclosure
- Small 2.6" Diameter
- Submersible
- Withstands temperatures up to 350°C for 2.5 hours continuously

Applications

- Extreme temperature monitoring
- Food Processing
- Oven Monitoring
  - Convention Oven
  - Curing Ovens
  - Baking Ovens
  - Batch Ovens
  - Conveyor or Continuous Oven
  - Walk-in / Truck-in Ovens
- Dry Heat Sterilization
- Autoclave Validation
- Furnace/Kiln Profiling
- Geothermal down-hole temperature recording
- Chemical Processing

The ThermoVault1000-P system includes a stainless steel thermal barrier and a Temp1000P data logger. The durable enclosure can withstand temperatures up to 230°C when completely submerged and 350°C in dry heat applications (o-ring removed).

The device is easy to use, simply open the enclosure, insert the Temp1000P, thread the probe through the end cap and latch it back onto the barrier body.

The Thermovault1000-P is built for use in applications that required extreme temperature monitoring, such as with furnace profiling, geothermal down-hole recording, and oven data logging.

THERMAL BARRIER SPECIFICATIONS*

Operating Environment: -200°C to +350°C (230°C with O-Ring), 0 to 100% RH

IP Rating: IP68

Insulation Type: Dewar flask and PTFE

Access Port Thread: 1/4" NPT Female

Enclosure Material: 304 Stainless Steel

Dimensions: 9.3" x 2.6" dia. 236mm x 66mm dia.

Weight: 3.2lb

Ambient Temperature	Time In Air To Max Internal Temp *Temp1000P*	Time In Liquid To Max Internal Temp *Temp1000P*
100 °C	600 min	130 min
150 °C	315 min	120 min
200 °C	240 min	75 min
250 °C	180 min	60 min

For extended ranges, please contact ThermoWorks.

300 °C	165 min	n/a
350 °C	150 min	n/a

See page 2 for Temp1000P specifications.

TEMP1000P SPECIFICATIONS*

Temperature Sensor: 100Ω Platinum RTD

Temperature Range: -40 to +80°C

Probe Range: -100 to +260°C

Temperature Resolution: 0.05°C

Calibrated Accuracy: ±0.5°C

Specified Accuracy Range: 100°C span between calibration points

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: 32,767 readings

Reading Rate: 1 reading every 2 seconds to 1 every 12 hours

Lethality Equations: Sterilization Units and Pasteurization Units are available in software with the click of a button

Calibration: Digital calibration through software

Calibration Date: Automatically recorded within device

Battery Type: 3.6V lithium battery included, **user replaceable**

Battery Life: 1 year typical (1 minute reading rate at 25°C)

Data Format: Date and time stamped °C, °F, K, °R

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

Computer Interface: PC serial or USB (Interface cable required); 2,400 baud

Software: Windows 95/98/ME/NT/2000/XP/Vista based software

Operating Environment: -40 to +80°C, 0%RH to 100%RH, submersible to 150'

Body Dimensions: 4.5" x 1.0" dia. (115mm x 26mm dia.)

Probe Dimensions: 6.75" x 3/16" dia. (172mm x 5 mm dia.)

Enclosure: 303 stainless steel

Probe: 304 stainless steel

Weight: 7.3 oz (205g)

Approvals: CE

BATTERY WARNING: RISK OF FIRE OR EXPLOSION. DO NOT RECHARGE, FORCE OPEN, HEAT OR DISPOSE OF IN FIRE.

SOFTWARE FEATURES

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

Real-Time Recording: Collect and display data in real-time while continuing to log

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

Printing: Automatically print graphical or tabular data

*SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE.
SPECIFIC WARRANTY AND REMEDY LIMITATIONS APPLY.
CALL 1-801-756-7705 OR GO TO WWW.THERMOWORKS.COM FOR DETAILS.

ORDERING INFORMATION

Model	Description	Price (U.S.)
THERMOVAULT1000-P	Thermal Barrier System, includes enclosure and Temp1000P	$1499.00
IFC110	Software, manual and RS232 interface cable	$99.00
IFC200	Software, manual and USB interface cable	$119.00
NIST	N.I.S.T. Calibration Certificate	Call for Pricing
TLH-5902	Replacement battery for Temp1000P	$10.00

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