The OM-70 Series of portable temperature and temperature/humidity data loggers are easy-to-use, versatile devices which can be used for a wide range of logging applications including coolers, freezers, greenhouses, museums, laboratories, shipping containers, warehouses, environmental monitoring and food storage. These data loggers are capable of sampling as fast as once per second or as slow as every 18 hours. Models OM-71 and OM-72 can store a total of 43,344 temperature measurements in memory. Model OM-73 can store a total of 43,344 measurement points for temperature only or 21,672 points of temperature, humidity and dew point. The model OM-74 thermocouple data logger can store 32,638 temperature samples. Easy-to-use Windows software is included with each data logger.

Software Features Include:
- Data summary to read statistics and alarm information in a simplified report format
- Data listing for tabular view of detailed dates, times and values of recorded data
- Graph function displays data in clear graphical format
- Zoom magnifies data with powerful zoom and autoscale functions
- Autoscale function fits data to the screen or allows user to manually enter their own values
- Graphical Cursor displays exact data of any point in the graphical display
- Export data in text or Excel format.
- Print graph or text data with print preview and setup options
- Logger configuration allows easy set up and launch of data loggers with immediate or delayed start, preferred sample rate, alarm setup, and custom ID
- Password protected calibration function automatically stores with parameters in device or restores factory defaults
Specifications

OM-71, OM-72, OM-73

Ambient Temperature

Measurement Range  
(Models OM-71, OM-73):
-20 to 70°C (-4 to 160°F)

External Sensor Temperature

Measurement Range  
(Model OM-72):
-40 to 70°C (-40 to 160°F)

Storage Temperature:
-40 to 77°C (-40 to 175°F)

Temperature Accuracy:
±0.5°C (±1°F), from -17 to 50°C  
(1 to 122°F)

Temperature Resolution:
0.1°C (0.05°F)

Relative Humidity Range  
(Model OM-73): 0 to 99% RH  
non-condensing

Relative Humidity Accuracy  
(Model OM-73):
±2% RH from 10 to 90% RH @25°C  
(77°F)

Relative Humidity Resolution  
(Model OM-73): 0.05% RH

OM-74

Display Temperature Resolution:
0.1°C (0.2°F) up to 199.9°C or °F,  
1°C (1°F) above 200°C or °F

Logged Temperature Resolution:
0.1°C (0.2°F)

Thermocouple Impedance:
50 Ω max for specified accuracy

Cold Junction Temperature

Accuracy: ±0.3°C (±0.5°F)

Operating Temperature:
-18 to 55°C (0 to 131°F)

Storage Temperature:
-30 to 80°C (-20 to 175°F)

GENERAL

Sample Rate: 1 second  
to 18 hours user selectable

Alarm Settings:
Over/under alarm  
with visual indication

LCD Display: Displays  
temperature, date, time,  
alarm condition recording  
status and battery condition

Time Accuracy:
±100 ppm @ 24°C (75°F)

Measurement Capacity:
OM-71, OM-72, OM-73:
Non-volatile memory; 43,344  
samples for temperature only,  
or 21,672 samples for temperature,  
humidity and dew point  
(Model OM-73); OM-74: 32,638  
temperature samples

Recording Control: Start on button  
press, immediate after setup, or at a  
user specified date and time

Recording Mode: Stop on memory  
full, or continuous recording with  
memory rollover

Minimum System Requirements:
8MB of RAM, 2MB of disk space,  
1 free USB port

Software Compatibility:
Windows XP/VISTA/7 and 8

OMEGACARESM extended warranty program

is available for models shown on this page.  
Ask your sales representative for full details  
when placing an order.  OMEGACARESM  
covers parts, labor and equivalent loaners.