

# OM-MLT Series Portable Data Loggers

## Part of the NOMAD® Family

**\$89**

Basic Unit



- ✓ Temperature, Temperature/Humidity, High Temperature and Autoclave Models
- ✓ Stores up to 16,000 Readings
- ✓ Magnet Can Be Used to Start Logging
- ✓ Compact, Light Weight
- ✓ Easy-to-Use Windows Software



OM-MLTD16 data logger, \$89, shown smaller than actual size

The OM-MLT Series is a comprehensive family of portable data loggers which uses the latest electronic technology and software. These data loggers are compact, self-powered devices which can measure and record almost every possible critical condition using a variety of internal and external sensor types. The OM-MLT Series also includes a high temperature model and an autoclave model.

The OM-MLT-AC autoclave data logger is a special product that can withstand high temperature and pressure environments to 150°C (302°F)/5 Bar for 30 minutes, 150°C (302°F) for 60 minutes in dry heat and indefinite operation at 125°C (257°F).

The primary intended use for the data logger is the qualification of autoclaves used for sterilization, however it is also suitable for measuring any high temperature applications not exceeding the specifications.

It is supplied with a stub probe that registers the environment temperature from 25 to 150°C (77 to 302°F), and an internal

temperature sensor for monitoring of data logger internal temperature conditions and prohibiting reprogramming of data logger until internal temperature has returned to 40°C (104°F). Data logger setup and data transfer to the PC is accomplished using the OM-MLT series Windows software. Data loggers can be programmed to start based on date/time or can be manually started by using the starting magnet. The logging session can end based on date/time, total number of readings or it can be set to wrap around. To download your data simply place the data logger in the PC interface cradle and connect to the data logger using the OM-MLT Series Windows software.

The software performs statistical analysis including minimum, maximum and average of all readings. The software also features user defined alarm set points and graph labels, a multiple graphing facility to graph data from multiple dataloggers on a single graph and also the ability to view current conditions through the PC interface in real time. Stored data files can be exported to Microsoft Excel.

### Specifications

#### COMMON SPECIFICATIONS

**Sampling Rate:** User selectable 5 to 59 seconds or 1 to 255 minutes (OM-MLTHB16 is 1 to 255 minutes only)

**Memory:** All models store 16,000 readings except model OM-MLT-AC which stores 2000 readings

**Power:** 3.6 V lithium battery (included)

**Battery Life:** 1 to 2 year battery life typical depending on use

**Software:** WIN95/98/NT/2000/XP

#### OM-MLTD16 TEMPERATURE DATA LOGGER WITH ONE INTERNAL SENSOR

**Temperature Range:**

-40 to 70°C

(-40 to 158°F)

**Accuracy:** ±0.3°C (±0.5°F)

**Resolution:** 0.5°C (0.9°F)

**Visual Indicators:** green LED indicates active status, red LED indicates alarm

**Storage Temperature:**

-40 to 85°C (-40 to 185°F)

**Enclosure:** IP67

**Weight:** 70 g ( 2.5 oz)

**Dimensions:**

75 D x 18 mm H  
(2.95 x 0.7")



OM-MLTXD16 data logger, \$135, shown smaller than actual size

**OM-MLTXD16 TEMPERATURE DATA LOGGER WITH ONE INTERNAL AND ONE EXTERNAL SENSOR**

**Temperature Range:** -40 to 70°C (-40 to 158°F)  
**Accuracy:** ±0.3°C (±0.5°F)  
**Resolution:** 0.5°C (0.9°F)  
**Enclosure:** IP51  
**Temperature Probe:** 4.5 D x 80 mm L (0.18 x 3.1") stainless steel penetration style probe with 1 m (3') cable  
**Visual Indicators:** green LED indicates active status, red LED indicates alarm  
**Storage Temperature:** -40 to 85°C (-40 to 185°F)  
**Weight:** 70 g (2.5 oz)  
**Dimensions:** 75 D x 18 mm H (2.95 x 0.7")



OM-MLTHB16 data logger, \$235, shown smaller than actual size

**OM-MLTHB16 TEMPERATURE HUMIDITY DATA LOGGER**

**Temperature Range:** -20 to 60°C (-4 to 140°F)  
**Temperature Accuracy:** ±0.3°C (±0.5°F)  
**Temperature Resolution:** 0.3°C (0.5°F)  
**Humidity Range:** 0 to 100%RH  
**Humidity Accuracy:** ±3%RH  
**Humidity Resolution:** 0.5%RH  
**Visual Indicators:** green LED indicates active status, red LED indicates alarm  
**Enclosure:** IP51  
**Storage Temperature:** -40 to 85°C (-40 to 185°F)  
**Weight:** 100 g (3.5 oz)  
**Dimensions:** 75 D x 50 mm H (2.95 x 2.0")

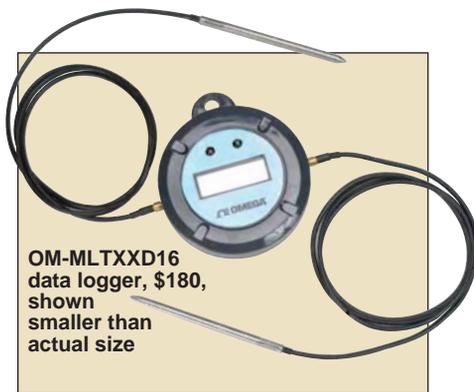
OMEGACARE<sup>SM</sup> extended warranty program is available for models shown on this page. Ask your sales representative for full details when placing an order. OMEGACARE<sup>SM</sup> covers parts, labor and equivalent loaners.



OM-MLT-AC data logger, \$995, shown smaller than actual size

**OM-MLT-AC AUTOCLAVE DATA LOGGER**

**Temperature Range:** -25 to 150°C (-13 to 302°F)  
**Endurance Ratings:** Rated for autoclave at 150°C (302°F)/5 Bar for 30 minutes, typical oven dry heat at 150°C (302°F) for 60 minutes, and oven dry heat at 125°C (257°F) for indefinite amount of time (depending on battery life) provided that temperature never exceeds 125°C (257°F)  
**Sensors:** External sensor is used for sampling the environment under test; internal sensor has a measuring range of 1 to 150°C (34 to 302°F) and is used for diagnostic purposes only  
**Accuracy:** ±0.5°C (±0.9°F)  
**Resolution:** 0.5°C (0.9°F)  
**Enclosure:** 316 stainless steel IP68 tested to 5 bar  
**Storage Temperature:** 0 to 125°C (32 to 257°F)  
**Weight:** 345 g (12 oz)  
**Dimensions:** Data logger: 65 D x 43 mm H (2.6 x 1.7")  
 Probe: 4.5 D x 50 mm L (0.18 x 2.0")



OM-MLTXXD16 data logger, \$180, shown smaller than actual size

**OM-MLTXXD16 TEMPERATURE DATA LOGGER WITH TWO EXTERNAL SENSORS**

**Temperature Range:** -40 to 70°C (-40 to 158°F)  
**Accuracy:** ±0.3°C (±0.5°F)  
**Resolution:** 0.5°C (0.9°F)  
**Enclosure:** IP51  
**Temperature Probe:** 4.5 D x 80 mm L (0.18 x 3.1") stainless steel penetration style probe with 1 m (3') cable  
**Visual Indicators:** green LED indicates active status, red LED indicates alarm  
**Storage Temperature:** -40 to 85°C (-40 to 185°F)  
**Weight:** 70 g (2.5 oz)  
**Dimensions:** 75 D x 18 mm H (2.95 x 0.7")

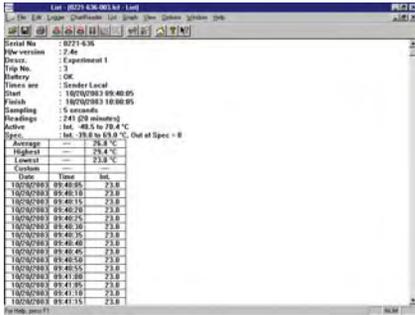


OM-MLT-HT datalogger, \$589, shown smaller than actual size

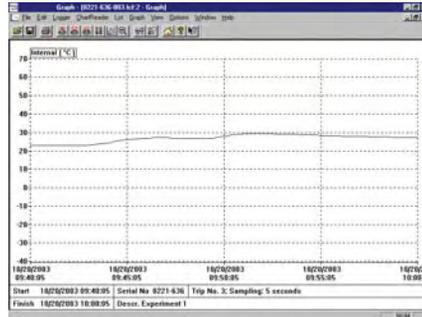
**OM-MLT-HT HIGH TEMPERATURE DATALOGGER**

**Temperature Range:** 0 to 125°C (32 to 257°F)  
**Accuracy:** ±0.3°C (±0.5°F)  
**Resolution:** 0.5°C (0.9°F)  
**Enclosure:** 316 stainless steel with IP68 rating  
**Storage Temperature:** -40 to 125°C (-40 to 257°F)  
**Weight:** 250 g (8.8 oz)  
**Dimensions:** Data logger: 49 D x 28 mm H (1.93 x 1.1")  
 Probe: 4.5 D x 50 mm L (0.18 x 2.0")

**Windows Software - Data Table**



OMEGACARE<sup>SM</sup> extended warranty program is available for models shown on this page. Ask your sales representative for full details when placing an order. OMEGACARE<sup>SM</sup> covers parts, labor and equivalent loaners.



**Windows Software - Data Plot**

**OM-MLT-LINK PC INTERFACE FOR OM-MLT SERIES DATA LOGGERS (FOR ALL MODLES EXCEPT OM-MLT-AC AUTOCLAVE DATA LOGGER**

**PC interface:** Data logger cradle and 1.5 m (5') RS-232 cable with DB9F termination  
**Weight:** 134 g (4.7 oz)  
**Dimensions:** 85 D x 29 mm H (3.3 x 1.1")



**OM-MLT-LINK serial interface, \$62, shown smaller than actual size**

**OM-MLT-KEYSTART MAGNET**  
**Weight:** 36 g (1.3 oz)  
**Dimensions:** 31 mm dia x 5 mm H (1.2 x 0.2")



**OM-MLT-KEY start magnet, \$8, shown smaller than actual size**



**Windows Software - Data Logger Setup**

**ALL MODELS AVAILABLE FOR FAST DELIVERY!**

<b>To Order (Specify Model Number)</b>		
<b>Model No.</b>	<b>Price</b>	<b>Description</b>
<b>OM-MLTD16</b>	<b>\$89</b>	Temperature data logger (one internal sensor)
<b>OM-MLTXD16</b>	<b>135</b>	Temperature data logger (one internal and one external sensor)
<b>OM-MLTXXD16</b>	<b>180</b>	Temperature data logger (two external sensors)
<b>OM-MLTHB16</b>	<b>235</b>	Temperature and humidity data logger
<b>OM-MLT-HT</b>	<b>589</b>	High temperature data logger
<b>OM-MLT-AC</b>	<b>995</b>	Autoclave data logger
<b>OM-MLT-LINK</b>	<b>62</b>	Serial interface (5 ft RS-232 cable with DB9F termination and cradle) for all OM-MLT series data loggers (includes Windows software)
<b>OM-MLT-KEY</b>	<b>8</b>	Starting magnet
<b>OM-MLT-BATT</b>	<b>15</b>	Replacement 3.6 V lithium battery

Model OM-MLTXD16 includes one external temperature sensor.

Model OM-MLTXXD16 includes two external temperature sensors.

**Ordering Example:** **OM-MLTHB16** temperature and humidity data logger, **OMEGACARE<sup>SM</sup>** 1 year extended warranty for **OM-MLTHB16** (adds 1 year to standard 1 year warranty), **OM-MLT-LINK** serial cable and cradle, and **OM-MLT-KEY** starting magnet, \$235 + 25 + 62 + 8 = **\$330**.

# omega.co.uk<sup>®</sup>

Your One-Stop Source for Process Measurement and Control!

Freephone 0800 488 488 | International +44(0) 161 777 6622 | Fax +44(0) 161 777 6622 | Sales@omega.co.uk

[www.omega.co.uk](http://www.omega.co.uk)



#### UNITED STATES

[www.omega.com](http://www.omega.com)

1-800-TC-OMEGA  
Stamford, CT.

#### CANADA

[www.omega.ca](http://www.omega.ca)

Laval(Quebec)  
1-800-TC-OMEGA

#### GERMANY

[www.omega.de](http://www.omega.de)

Deckenfronn, Germany  
0800-8266342

#### UNITED KINGDOM

[www.omega.co.uk](http://www.omega.co.uk)

Manchester, England  
0800-488-488  
+44-(0)161-777-6611

#### FRANCE

[www.omega.fr](http://www.omega.fr)

0800-466-342

#### BENELUX

[www.omega.nl](http://www.omega.nl)

0800-099-33-44



## More than 100,000 Products Available!

### • Temperature

Calibrators, Connectors, General Test and Measurement Instruments, Handheld Instruments for Temperature Measurement, Ice Point References, Indicating Labels, Crayons, Cements and Lacquers, Infrared Temperature Measurement Instruments, Recorders, Relative Humidity Measurement Instruments, PT100 Probes, PT100 Elements, Temperature & Process Meters, Timers and Counters, Temperature and Process Controllers and Power Switching Devices, Thermistor Elements, Probes and Assemblies, Thermocouples, Thermowells and Head and Well Assemblies, Transmitters, Thermocouple Wire, RTD Probes

### • Flow and Level

Air Velocity Indicators, Doppler Flowmeters, Level Measurement, Magnetic Flowmeters, Mass Flowmeters, Pitot Tubes, Pumps, Rotameters, Turbine and Paddle Wheel Flowmeters, Ultrasonic Flowmeters, Valves, Variable Area Flowmeters, Vortex Shedding Flowmeters

### • pH and Conductivity

Conductivity Instrumentation, Dissolved Oxygen Instrumentation, Environmental Instrumentation, pH Electrodes and Instruments, Water and Soil Analysis Instrumentation

### • Data Acquisition

Communication Products and Converters, Data Acquisition and Analysis Software, Data Loggers Plug-in Cards, Signal Conditioners, USB, RS232, RS485, Ethernet and Parallel Port Data Acquisition Systems, Wireless Transmitters and Receivers

### • Pressure, Strain and Force

Displacement Transducers, Dynamic Measurement Force Sensors, Instrumentation for Pressure and Strain Measurements, Load Cells, Pressure Gauges, Pressure Reference Section, Pressure Switches, Pressure Transducers, Proximity Transducers, Regulators, Pressure Transmitters, Strain Gauges, Torque Transducers, Valves

### • Heaters

Band Heaters, Cartridge Heaters, Circulation Heaters, Comfort Heaters, Controllers, Meters and Switching Devices, Flexible Heaters, General Test and Measurement Instruments, Heater Hook-up Wire, Heating Cable Systems, Immersion Heaters, Process Air and Duct, Heaters, Radiant Heaters, Strip Heaters, Tubular Heaters