

# Portable Data Loggers with USB Interface

## OM-EL-USB Series

Starts at  
**\$63**



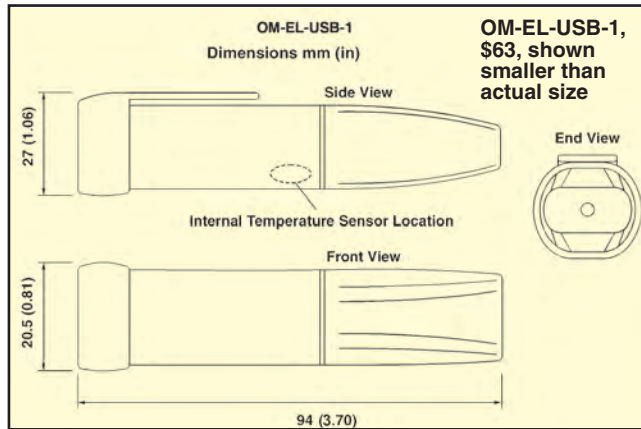
- Temperature, Temperature/RH/Dew Point, Voltage, and Current Models
- Data Logger Plugs Directly into Computer's USB Port for Easy Setup and Data Download (No USB Cable Required)
- User-Programmable Alarm Thresholds with LED Indicators
- Bright Red, Green, and Orange LED Indication
- Low-Battery Warning
- IP67 Protection

The OM-EL-USB Series of data loggers includes models for temperature, temperature/relative humidity, voltage, and current measurement. The user can easily set up the data logger and download the stored data by plugging the module into a PC's USB port and running the easy-to-use Windows software. Software-selectable setup parameters include logging rate, start time, high/low alarm settings, and temperature units (°C or °F). Data can then be graphed, printed, and exported to other applications such as Excel. Each data logger is supplied complete with a long-life lithium battery. Built-in LED indicators show data logger status. OM-EL-USB Series data loggers are protected against moisture to IP67 standards when the protective cap is fitted.

### Specifications

#### OM-EL-USB-1 TEMPERATURE DATA LOGGER

**Range:** -35 to 80°C (-31 to 176°F)  
**Resolution:** 0.5°C (1°F)  
**Accuracy:** ±1.0°C (±2.0°F)



OM-EL-USB-1,  
\$63, shown  
smaller than  
actual size



#### GENERAL

**Memory:** 16,000 temperature readings

**Logging Interval:** 10 sec to 12 h

**Operating Temperature Range:** 35 to 80°C (-31 to 176°F)

**Alarm Thresholds:** High/low alarm thresholds selectable in software

**Start Date/Time:** Selectable in software

**Status Indicators (LEDs):** Red, green and orange

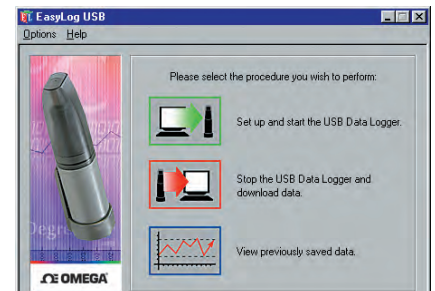
**Software:** Windows XP/VISTA

**Power:** ½ "AA" 3.6 V lithium battery (included)

**Battery Life:** 1 year (at 25°C and 1 minute logging interval)

**Weight:** 43 g (1.5 oz)

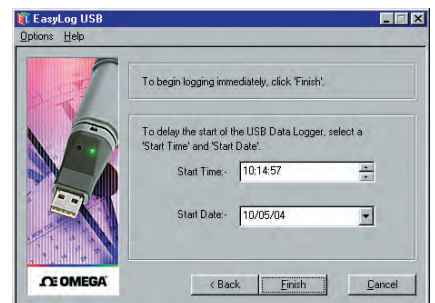
**Dimensions:** See dimensional drawing



Windows software—initial setup window

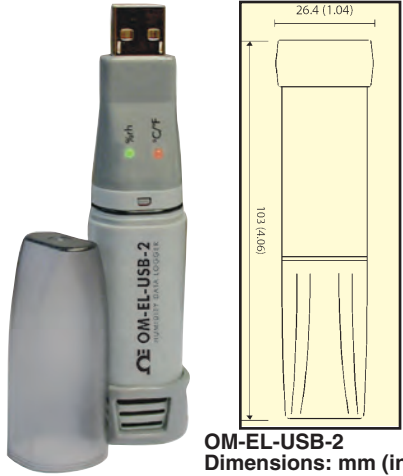


Windows software—alarm setup window



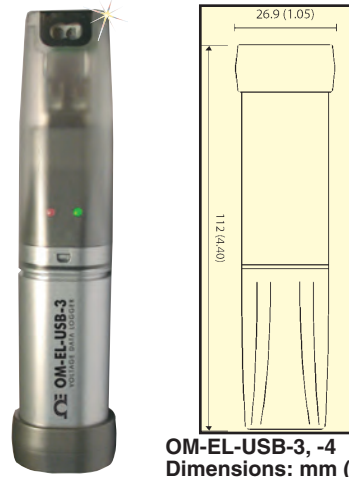
Windows software—logger start window

OM-EL-USB-2, \$82, shown smaller than actual size



OM-EL-USB-2  
Dimensions: mm (in)

OM-EL-USB-3, \$75, shown smaller than actual size



OM-EL-USB-3, -4  
Dimensions: mm (in)

OM-EL-USB-4, \$75, shown smaller than actual size



**OM-EL-USB-2 AND OM-EL-USB-2-PLUS TEMPERATURE AND RELATIVE HUMIDITY DATA LOGGER (DEW POINT INDICATION VIA WINDOWS SOFTWARE) TEMPERATURE**

**Range:** -35 to 80°C (-31 to 176°F)  
**Resolution:** 0.5°C (1°F)

**Accuracy:**  
**OM-EL-USB-2:** ±0.5°C (±1.0°F);  
**OM-EL-USB-2-PLUS:** ±0.3°C (±0.6°F)

**HUMIDITY**

**Range:** 0 to 100% RH  
**Resolution:** 0.5% RH  
**Accuracy (20 to 80% RH):**  
**OM-EL-USB-2:** ±3% RH;  
**OM-EL-USB-2-PLUS:** ±2.0% RH

**DEW POINT**

Accuracy (overall error in the calculated dew point for RH measurements from 40 to 100% RH @ 25°C): ±2°C (±4°F)

**GENERAL**

**Memory:** 16,000 temperature and 16,000 relative humidity readings  
**Logging Interval:** 10 seconds to 12 hours  
**Operating Temperature Range:** -35 to 80°C (-31 to 176°F)  
**Alarm Thresholds:** High/low alarm thresholds for % RH and temperature, selectable in software  
**Start Date/Time:** Selectable in software  
**Status Indicators (LEDs):** Red and green  
**Software:** WIN XP/VISTA  
**Power:** ½ "AA" 3.6 V lithium battery (included)  
**Battery Life:** 1 year typical (depends on sample rate, ambient temperature and use of alarm LEDs)  
**Weight:** 57 g (2 oz)  
**Dimensions:** See dimensional drawing

**OM-EL-USB-3 VOLTAGE DATA LOGGER**

**Range:** 0 to 30 Vdc  
**Resolution:** 100 mV  
**Accuracy:** ±1%

**GENERAL**

**Memory:** 32,000 voltage readings  
**Logging Interval:** 1 second to 12 hours  
**Input Connection:** Screw terminals  
**Operating Temperature Range:** -25 to 80°C (-13 to 176°F)  
**Alarm Thresholds:** High/low alarm thresholds selectable in software  
**Start Date/Time:** Selectable in software  
**Status Indicators (LEDs):** Red and green  
**Power:** ½ "AA" 3.6 V lithium battery (included)  
**Battery Life:** 1 year typical (depends on sample rate, ambient temperature and use of alarm LEDs)  
**Weight:** 57 g (2 oz)  
**Dimensions:** See dimensional drawing

**OM-EL-USB-4 CURRENT DATA LOGGER**

**Range:** 4 to 20 mA  
**Resolution:** 0.1 mA  
**Accuracy:** ±1%

**GENERAL**

**Memory:** 32,000 current readings  
**Logging Interval:** 1 second to 12 hours  
**Input Connection:** Screw terminals  
**Operating Temperature Range:** -35 to 80°C (-31 to 176°F)  
**Alarm Thresholds:** High/low alarm thresholds selectable in software  
**Start Date/Time:** Selectable in software  
**Status Indicators (LEDs):** Red and green  
**Power:** ½ "AA" 3.6 V lithium battery (included)  
**Battery Life:** 1 year typical (depends on sample rate, ambient temperature and use of alarm LEDs)  
**Weight:** 57 g (2 oz)  
**Dimensions:** See dimensional drawing

**ALL MODELS AVAILABLE FOR FAST DELIVERY!**

<b>To Order (Specify Model Number)</b>		
<b>Model No.</b>	<b>Price</b>	<b>Description</b>
OM-EL-USB-1	\$63	Temperature data logger with USB interface
OM-EL-USB-2	82	Temperature/RH/dew point data logger with USB interface
OM-EL-USB-2-PLUS	110	High accuracy temperature/RH/dew point data logger with USB interface
OM-EL-USB-3	75	Voltage data logger with USB interface
OM-EL-USB-4	75	Current data logger with USB interface
OM-EL-BATT	8	Replacement 3.6 V lithium battery

Each data logger is supplied with Windows software on CD-ROM, operator's manual and 3.6 V lithium battery. Data logger plugs directly into computer's USB port (no USB cable required).  
**Ordering Example:** OM-EL-USB-1, temperature data logger with USB interface, \$63.



#### 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)  
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0800-8266342

#### UNITED KINGDOM

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#### CZECH REPUBLIC

[www.omegaeng.cz](http://www.omegaeng.cz)  
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### • pH and Conductivity

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

### • Data Acquisition

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

### • Pressure, Strain and Force

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### • 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