# Portable Data Loggers with USB Interface
## OM-EL-USB Series



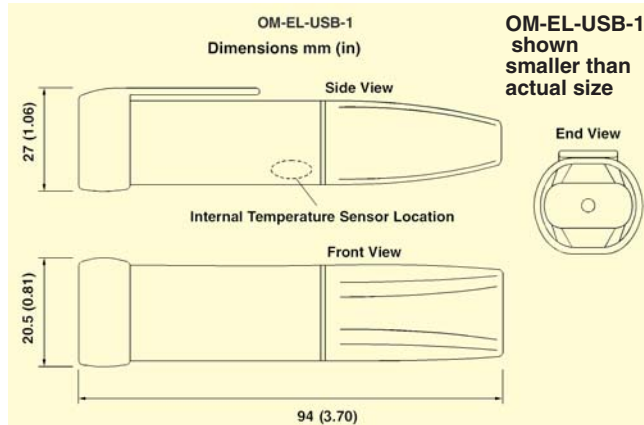**OM-EL-USB-1, shown smaller than actual size**

1 YEAR WARRANTY  CE

✔ **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)

**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 98/2000/XP
**Power:** ½ "AA" 3.6 V lithium battery (included)
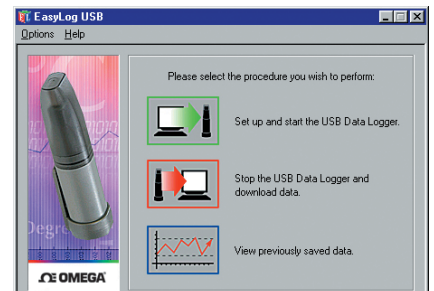**Battery Life:** 1 year (at 25°C and 1 minute logging interval)
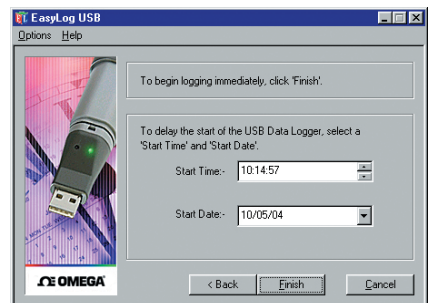**Weight:** 43 g (1.5 oz)
**Dimensions:** See dimensional drawing
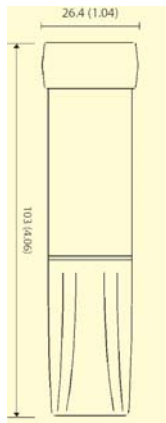


*Windows software—initial setup window*
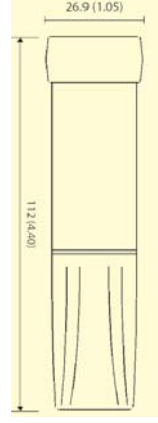


*Windows software—alarm setup window*



*Windows software—logger start window*

**OM-EL-USB-2,**
**shown smaller than**
**actual size**

**OM-EL-USB-3, shown**
**smaller than actual size**

**OM-EL-USB-4,**
**shown**
**smaller than**
**actual size**

26.4 (1.04)

26.9 (1.05)

103 (4.06)

112 (4.40)

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

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

**E**

## OM-EL-USB-2
## 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:** ±1.0°C (±2.0°F)
**HUMIDITY**
   **Range:** 0 to 100% RH
   **Resolution:** 0.5% RH
   **Accuracy:** 20 to 80% RH ±3.5% 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:** Windows 98/2000/XP
**Power:** ½ "AA" 3.6 V lithium battery (included)
**Battery Life:** 1 year typical (depends on sample rate, ambient temperaure 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!***

| To Order *(Specify Model Number)* | | |
|---|---|---|
| **Model No.** | **Price** | **Description** |
| **OM-EL-USB-1** | | Temperature data logger with USB interface |
| **OM-EL-USB-2** | | Temperature/RH/dew point data logger with USB interface |
| **OM-EL-USB-3** | | Voltage data logger with USB interface |
| **OM-EL-USB-4** | | Current data logger with USB interface |
| **OM-EL-BATT** | | 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,*