

Temperature, Humidity and Dew Point Data Logger with LCD Display

OM-EL-USB-2-LCD

- ✓ 0 to 100% RH Measurement Range
- ✓ -35 to 80°C (-31 to 176°F) Temperature Measurement Range
- ✓ Dew Point Indication via Windows® Control Software
- ✓ USB Interface for Set-Up and Data Download
- ✓ User-Programmable Alarm Thresholds for Temperature and %RH
- ✓ Status Indication via Red and Green LEDs
- ✓ High Contrast LCD, with 2½ Digit Temperature and Humidity Display Function
- ✓ Immediate, Delayed and Push-to-Start Logging
- ✓ Supplied Complete with Replaceable Internal Lithium Battery and Windows Control Software

The OM-EL-USB-2-LCD is a standalone data logger that measures and stores up to 16,379 relative humidity and 16,379 temperature readings over 0 to 100% RH and -35 to 80°C (-31 to 176°F) measurement ranges. The high contrast LCD can show a variety of temperature and humidity information. At the touch of a button, the user can cycle between the current temperature and humidity, along with the maximum and minimum stored values for temperature and humidity. In addition, logging and alarm status is shown using two high intensity LEDs. The data logger is supplied with a long-life lithium battery, which can typically allow logging for up to 1 year. The user can easily set up the data logger and download logged data by plugging the unit into a PC's USB port and using the supplied Windows software. Data logger parameters that can be set up include data logger name, °C or °F temperature units, logging rate (10 sec, 1 min, 5 min, 30 min, 1 hr, 6 hrs, 12 hrs), high and low alarms, immediate, delayed or push-to-start logging, display off, on for 30 seconds after button press, or permanently on, and data rollover (allows unlimited logging periods by overwriting the oldest data when the memory is full). Downloaded relative humidity, temperature and dew point data saved in text format can be graphed, printed and exported to other applications for further analysis.

Specifications

TEMPERATURE

Range: -35 to 80°C (-31 to 176°F)
Repeatability: ±0.1°C (±0.2°F)
Resolution: 0.5°C (1.0°F)
Accuracy (OM-EL-USB-2-LCD): ±0.5°C (±1.0°F) typical; ±2.0°C (±4.0°F) max
Accuracy (OM-EL-USB-2-LCD-PLUS): ±0.3°C (±0.6°F) typical; ±1.5°C (±3.0°F) max

HUMIDITY

Range: 0 to 100% RH
Repeatability: ±0.1% RH (short term)
Resolution: 0.5% RH
Accuracy [20 to 80% RH] (OM-EL-USB-2-LCD): ±3.0% RH typical; ±5.0% RH max
Accuracy [20 to 80% RH] (OM-EL-USB-2-LCD-PLUS): ±2.0% RH typical; ±4.0% RH max

DEW POINT

Accuracy (Overall Error in the Calculated Dew Point, for RH Measurements Between 40 to 100% RH @ 25°): ±1.1°C (±2°F)



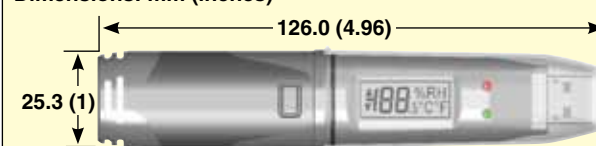
OM-EL-USB-2-LCD, shown actual size.

Comes with Windows control software.

GENERAL

Memory: 16,379 temperature and 16,379 relative humidity readings
Logging Interval: 10 sec to 12 hrs
Software: Windows XP/Vista/7 and 8 (32-bit and 64-bit)
Operating Temperature Range: -35 to 80°C (-31 to 176°F); at temperatures below -20°C (-4°F) the LCD display will exhibit slower response times of approx 10 seconds
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
Power: ½ AA, 3.6V lithium battery (included)
Battery Life: 1 year typical (depends on sample rate, ambient temperature and use of LCD display)
Weight: 40 g (1.4 oz)
Dimensions: See dimensional drawing below

Dimensions: mm (inches)



To Order

Model No.	Description
OM-EL-USB-2-LCD	Temperature, humidity and dew point data logger with LCD display
OM-EL-USB-2-LCD-PLUS	High accuracy temperature, humidity and dew point data logger with LCD display
OM-EL-BATT	Replacement 3.6V lithium battery

Comes complete with Windows software on CD-ROM, protective cap and 3.6V lithium battery.

Ordering Example: OM-EL-USB-2-LCD, temperature/humidity data logger with LCD display.