

Light Data Loggers

OMYL-M61 and OMYL-M62



- OMYL-M61 Measures Light (Luminance)
- OMYL-M62 Measure Light (Luminance), Temperature and Humidity
- Up to 4 Million Readings (Internal Memory Size)
- Shock Proof, IP65 Housing (Dust and Water Jet Proof)
- Up to 4 Years Battery Life

OMYL-M61 and OMYL-M62 light data loggers record luminance with a spectral sensitivity adjusted to the spectrum of the human eye. These data loggers are available with standard memory of 100,000 readings (OMYL-M61, OMYL-M62) or expanded memory of 4 million readings (OMYL-M61-4M, OMYL-M62-4M).

Models OMYL-M61 and OMYL-M61-4M have one internal channel for light measurement. Models OMYL-M62 and OMYL-M62-4M models have three internal channels for measuring light, temperature and humidity. These data loggers are typically used in weather stations, museums, street lighting or commercial/industrial lighting studies.

The storage medium is non-volatile flash memory so no data is lost if the battery becomes discharged. Data logger setup as well as data retrieval is accomplished using the included standard OMYL-SOFT software. Downloaded data is stored in the OMYL-SOFT software as a text file for viewing in third party software packages or Microsoft Excel. The OMYL-SOFT standard software does not include any graphing functionality. Graphing and analyzing downloaded data files requires the OMYL-SOFT-PLUS version of the software (sold separately).

SPECIFICATIONS

Sensor Type

OMYL-M61/OMYL-M61-4M: Single internal channel for light (luminance)

OMYL-M62/OMYL-M62-4M: Three internal channels for light (luminance), temperature and humidity

Measuring Range

Light (Luminance): 0 to 40,000 lux

Relative Humidity (OMYL-M62, OMYL-M62-4M Only): 0 to 100% RH

Temperature (OMYL-M62, OMYL-M62-4M Only):
 -30 to 70°C (-22 to 158°F) with standard battery;
 -40 to 90°C (-40 to 194°F) with optional high temperature battery



OMYL-M61 shown larger than actual size.

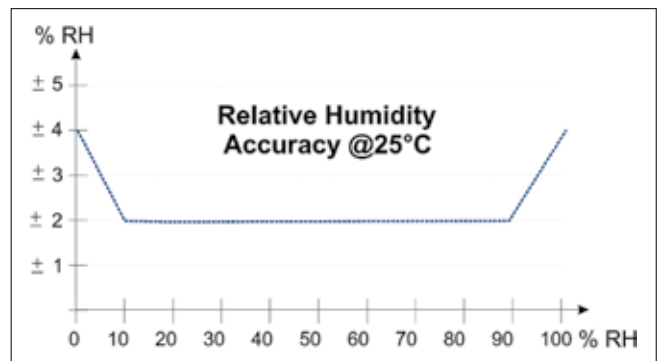
OMYL-M62 shown larger than actual size.

Accuracy:

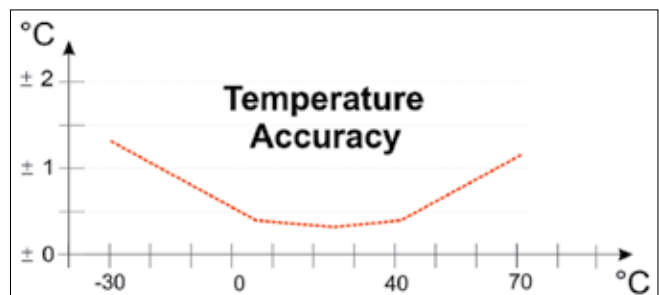
Light: $\pm(6\%$ of reading ± 2 lux)

Relative Humidity (OMYL-M62, OMYL-M62-4M

Only): See graph below



Temperature (OMYL-M62, OMYL-M62-4M Only):
 See graph below





OMYL-SOFT-PLUS graphical display.



OMYL-M61 actual size with rear cover removed to show USB connection.

Resolution

Light: 1 lux

Relative Humidity (OMYL-M62, OMYL-M62-4M Only):
0.01% RH

Temperature (OMYL-M62, OMYL-M62-4M Only):
0.01K, 0.01°C (0.02°F)

Reading Rate: 1 second to 24 hours

Start Modes: Immediate start, delayed start

Memory Capacity

OMYL-M61/OMYL-M62: 100,000 readings

OMYL-M61-4M/OMYL-M62-4M: 4 million readings

Memory Wrap Around: Yes (software configurable)

Battery: 3V lithium battery [standard temperature range battery (included), optional high temperature range battery]; user replaceable

Battery Life (Standard Temperature Range Battery):

4 years at 1 minute reading rate, 230 days at 10 second reading rate, 25 days at 1 second reading rate

LED Functionality: Integrated status LED indicates data logging status, low battery or alarm condition

Alarms: Software programmable high/low thresholds

Computer Interface: USB (interface cable included)

Software: XP SP3/Vista/7 and 8 (32- and 64-bit)

Operating Environment: -30 to 70°C (-22 to 158°F) with standard lithium battery; -40 to 90°C (-40 to 194°F) with optional high temperature lithium battery

Dimensions: 30 H x 50 mm dia (1.18 x 1.97")

Weight: 70 g (2.5 oz)

Enclosure: Robust, shock-proof POM, IP65



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.

To Order

Model No.	Description
OMYL-M61	Light data logger, 100,000 readings
OMYL-M61-4M	Light data logger, 4 million readings
OMYL-M62	Light, temperature and humidity data logger, 100,000 readings
OMYL-M62-4M	Light, temperature and humidity data logger, 4 million readings

Comes complete with 3V lithium battery (standard temperature range), 1.8 m (6') USB interface cable and OMYL-SOFT software, and operator's manual on USB stick.

Ordering Example: OMYL-M61 light data logger, 100,000 readings and OCW-1 OMEGACARESM extends standard 1-year warranty to a total of 2 years.

Accessories

Model No.	Description
OMYL-SOFT-PLUS	Plus version of the software for graphing and analyzing data files
OMYL-WH20	Wall mount holder for data logger (includes tamper evident lead seal)
OMYL-WS50	Set of 50 tamper evident lead seals (50 wires and 50 seals)
OMYL-BATT	Replacement 3V lithium battery (standard temperature range)
OMYL-BATT-HT	Replacement 3V lithium battery (high temperature range)