

Portable Data Loggers

OM-EL Series



- ✓ 8 and 12-Bit Models
- ✓ Thermocouple, 100 Ω Pt RTD, pH, dc Voltage, dc Current, Pulse Inputs
- ✓ Up to 3 Year Battery Life
- ✓ Record up to 8000 Readings

OMEGA's OM-EL Series is a family of portable data loggers with up to 12 bit accuracy and resolution.

OM-EL Series data loggers feature a high contrast LCD display, up to 3 years battery life, adjustable sampling rate (variable between 5 seconds and 12 hours), data storage up to 8000 readings, alarm modes, delayed, automatic or push to start. The 8 bit (256 steps) model has an integral sensor, making temperature measurements particularly easy.

Ideally suited for incorporation into new and existing measurement systems, readings can be stored and processed in the panel meter, allowing full control of the monitored process.

The OM-EL-WIN Windows compatible software (Windows 98/NT/2000/XP) ensures an effortless set-up of one or more of the OM-EL Series data loggers modules and controls the transfer of logged data to the PC for further analysis.

Although perfectly suited to self powered applications, up to eight OM-EL Series data loggers modules can be linked together in a network to form a complete control and measurement system.



OM-EL-2, enclosed portable data logger, shown smaller than actual size.

Designed to perform simple or sophisticated data logging with the minimum of cost and complexity, the logger has a built-in LCD display and an internal battery which can last up to 3 years, depending on sample rate and parameters being measured. Sample intervals are user-variable between 5 seconds and 12 hours with a maximum capacity of over 8000 readings.

Easy to install on a Windows 98/NT/2000 or XP platform, the OM-EL-WIN Easy Log control software is needed to enable the user to configure and operate any OM-EL data logger and is supplied on a 3½" disk with a manual and serial link cable. Allowing up to eight loggers to be operated as a network, the OM-EL-WIN software

includes automatic prompting for ease of use, a mimic mode which allows remote indication on the PC, extensive graphing facilities and the facility to export data directly into popular spreadsheets such as Excel.

Specifications

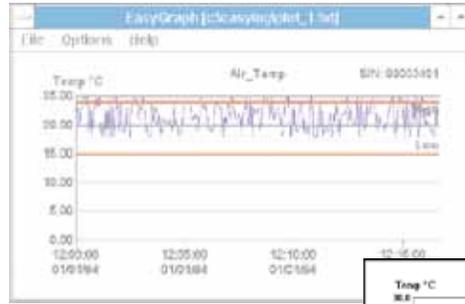
- Number of Readings:** 8000
- Logging Interval:** Selectable 5 sec to 12 hrs
- Serial Link:** 8 pin mini-DIN connection
- Sensor Connection:** OM-EL-2-phone jack, OM-EL-2-12 BIT- 4-pin connector (mating connector supplied)
- Range Selection:** 8 bit model; software selectable; 12 bit model; selected by internal jumper

Physical Specifications

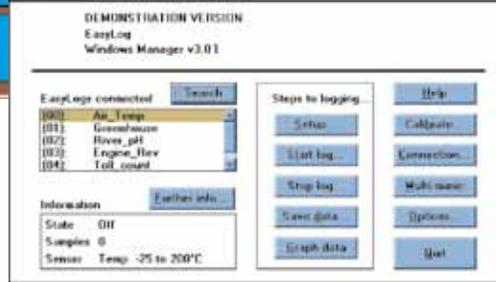
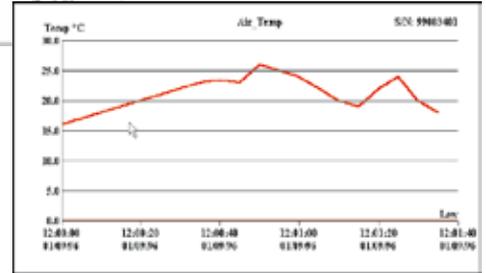
Model No.	OM-EL-2 / OM-EL-2-12BIT
Dimensions	54 H x 70 W x 26 mm D (2.12 x 2.75 x 1.02")



Configure and operate any OM-EL Series data logger.



EasyLog for Windows control software.



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.

Model No.		OM-EL-2	OM-EL-2-12BIT
Input Type	Range	Resolution/Accuracy	Resolution/Accuracy
Temperature (internal sensor)	-10 to 50°C (14 to 122°F)	1°C/±1°C (1°F/±2°F)	—
Temperature (Type K Thermocouple)	-25 to 200°C (-13 to 392°F)	1°C/±1°C (1°F/±2°F)	—
Temperature (Pt100 RTD)	-200 to 200°C (-200 to 200°F)	—	0.1°C/±0.5°C (0.1°F/±1°F)
Temperature (Pt100 RTD)	-200 to 850°C (-328 to 1562°F)	—	1°C/±1°C (1°F/±2°F)
pH	0 to 14 pH	0.1 pH/*	—
dc Voltage	±200 mV	—	100 uV/0.05%
dc Voltage	±2 V	0.01 V/±1%	1 mV/0.05%
dc Voltage	±20 V	-0.1 V/±1%	10 mV/0.05%
dc Current	4 to 20 mA	—	16 uA/0.1%
Frequency**	40 to 400 Hz	NA/± Hz	—
Rate Count†	0 to 255	1 unit/NA	—

*Sensor Dependent **Pulse input, $V_{IH} > 2.0 V$, $V_{IL} < 1.0 V$. Max input ±20V.

†Counts number of pulses over a given period. Maximum number of counts per period is 255. Voltage levels are the same as for frequency measurement.

To Order	
Model No.	Description
OM-EL-2	8-bit portable data logger
OM-EL-2-12BIT	12-bit portable data logger
OM-EL-WIN	EasyLog for Windows software for OM-EL Series data loggers
OM-EL-BATT	Replacement 3.6 V lithium battery
OM-EL-EASYLINK-STD-D	Spare RS232 cable (DB9F termination) for OM-EL Series data loggers

Comes complete with operator's manual and sensor mating connector. RS232 cable is supplied with Easylog Software.

Ordering Example: OM-EL-2 8 bit portable data logger, OM-EL-WIN EasyLog for Windows software and OCW-1 OMEGACARESM 1 year extended warranty (adds 1 year to standard 1 year warranty).