

OM-EL-1 PANEL MOUNT DATALOGGER



M-3139

OM-EL-1 measures, displays, records and controls temperature, humidity, pH, voltage, current, etc., with a memory for 8064 readings and a battery life of up to 3 years**. OM-EL-1 can operate as a 'stand alone' logger or be permanently connected to a system. The OM-EL-1 serial link is addressable and up to 8 loggers can be connected to one serial port. The PC software operates under Windows 3.1 and does not require specialist skill to operate. Data output is in text format and can be easily integrated into any popular spreadsheet. Graphical output is possible under OM-EL-WIN. Consult the EasyLog software manual for further details.

- **Battery Powered**
- Multi-function
- Non-volatile Data Storage
- Panel Mounting
- **@** Easy to Use
- Cold Junction Compensation For Thermocouple Temperature Sensing

WindowsTM 3.1 Control Software

Model No - OM-EL-WIN

Easy to install and use, the control software will enable the user to control one or more EasyLogs and operate them as a complete system. Supplied on a $3\frac{1}{2}$ " disk with a manual and serial link. OM-EL-WIN will run under Windows 95.

Accessories - Cables

Model No - OM-EL-EASYLINK

Extension connector to 'daisy chain' more than one EasyLog. One extension will be needed for each extra logger.

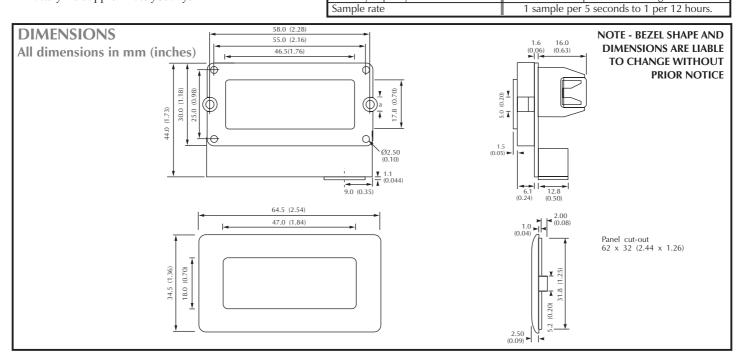
- * Sensor dependent.
- ** Battery life dependent on input mode and sample rate.

E.g. Rate Count, 5 sec. sample rate. Battery life is approximately 30 days.

Model No Data Logger OM-EL-1						
Specification	Range	Resolution	Accuracy			
Temperature ('K' type thermocouple)	-25 to +200°C	1°C	±1°C			
	-13 to +392°F	1°F	±2°F			
Temperature (internal)	-10 to +50°C	1°C	±1°C			
(internal)	+14 to +122°F	1°F	±2°F			
Humidity	5 to 95% RH	1%RH	*			
рН	0 to 14pH	0.1pH*	±0.1pH*			
	0 to 2V D.C.	0.01V	1.10/			
Voltage	0 to 20V D.C.	0.1V	±1%			
Current	0 to 2A	0.01A	±1%			
Rate count	0 to 255	1 unit	N/A			
Frequency	40 to 400Hz	N/A	±2Hz			
Battery	3.6V ½AA lithium (up to 3 years life)**					
Serial link	8 Pin Mini DIN					

Screw terminal

up to 8000 readings



Sensor connection

Memory capacity

USING EXTERNAL SIGNALS

PIN FUNCTION A1, A2, REF Output for test diagnostics. Do not use. High Alarm output = V + when alarmed. HA SW 'Push to record event' input. Momentarily connect to V-. RS Reset input. Momentarily connect to V-. NOTE - logging will stop and restart at 0 time. Low Alarm output = V + when alarmed. LA A+ Output = V+ when a reading is in progress V+ DO NOT APPLY AN EXTERNAL SUPPLY VOLTAGE Battery positive. ACROSS THESE PINS WITH BATTERY IN PLACE. V-Battery negative. Only connect outputs to high impedance inputs, otherwise performance will be affected and battery life drastically reduced.

BATTERY REPLACEMENT

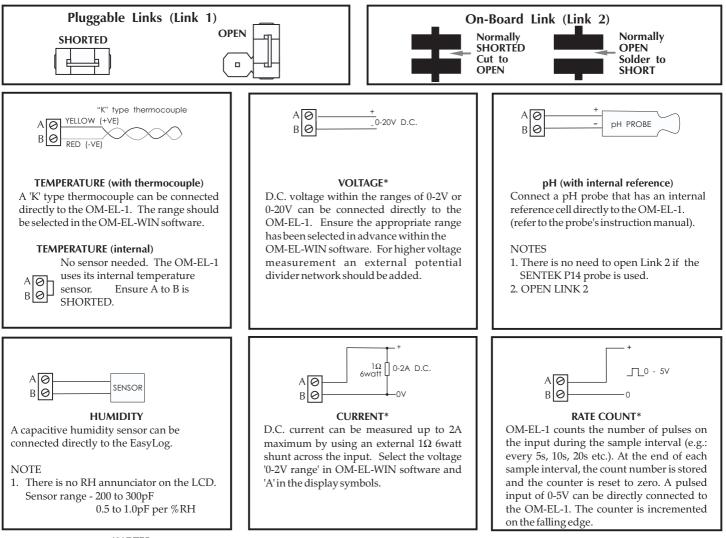
Only use ½AA 3.6V lithium. The list below is not exhaustive. Check with supplier that the battery you are ordering is 'press fit' and is not fitted with solder tags or leads. Take care to connect correctly.

MANUFACTURER	PART NUMBER	MANUFACTURER'S ORDER CODE
MAXELL	ER 3S TC	n/a
SAFT	LS3	n/a
SONNENSCHEIN	SL-750/S	1107 501 100
TADIRAN	1/2AA/S	1551-02-210-000

 $[\]wedge$

WARNING: Handle lithium batteries carefully - observe warnings on battery casing. Dispose of in accordance with local regulations.

VARIOUS OPERATING MODES



***NOTES**

1. When using the serial link, ensure that all signals are isolated from the computer ground.

2. When using several loggers together, ensure all signals are isolated or use the same ground.

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