

- -18 to +55°C (-0.4 to +131°F) temperature measurement range
- 0 to 100%RH humidity measurement range
- Stores over 1,000,000 readings (As per spec table)
- · No software to install configure using your normal web browser
- Use with a PC or Mac
- Display shows current, maximum and minimum readings
- Status and alarm indicators
- Data can be uploaded to the EasyLog Cloud



Monitor the environment you live and work in with the EasyLog EL-SIE-2. Configuration is simple, with no software to install on your PC or Mac – just connect the logger with a USB cable, and use your standard web browser to configure the device for logging. You don't even need internet access to set up and use the EL-SIE-2, it really couldn't be easier.

The logging interval can be set between 10 seconds and 24 hours, with immediate, delayed, triggered or push-to-start logging. Alarms are fully user configurable, with functionality including cumulative alarms, pre-alarms, a delay before alarm triggering, and an alarm hold option, which continues showing the alarm condition even if the reading returns to an acceptable level.

The display shows current, maximum and minimum readings, and three coloured LEDs indicate device status at a glance.

Once logging is complete, re-connect to your computer and use your browser to view, analyse and save your data. You can also choose to upload your data to an Easy Log Cloud account, making the data accessible online for powerful graphing, analysis and report generation.

Typical battery life is over 1 year using standard AAA alkaline batteries, and a wall mounting bracket is supplied with the device.

SPECIFICATIONS

| Temperature | Measurement range | -18 to +55°C (-0.4 to +131°F) | BAT 1V5 AAA | 2 x AAA 1.5V alkaline | |
|-----------------------------|---------------------|--|--|-----------------------|--|
| | Resolution | 0.01° | | batteries | |
| | Accuracy | ±0.3°C (±0.54°F) typical | EL-SIE WALL BRACKET | Mounting bracket | |
| | Long term stability | <0.03°C (<0.054°F) / year | CABLE USB 3.1 C 0.5M | USB A to USB C Cable | |
| | Measurement units | °C, °F or K | | | |
| Relative Humidity | Measurement range | 0 to 100%RH | ACCESSORIES | | |
| | Resolution | 0.1% | BAT 1V5 AAA | 2 x AAA 1.5V alkaline | |
| | Accuracy | ±2.0% typical (0 to 100%RH) | | batteries | |
| | Long term stability | <0.25%RH / year typical | CABLE USB 3.1 C 0.5M | USB A to USB C Cable | |
| Dew Point | Accuracy | 1.7°C typical (40 to 100%RH) | _ CALIBRATION CERTIF | Ιζάτες ανάμαρι ε | |
| Logging rate | | 10 seconds to 24 hours, user selectable | Omni Instruments Ltd offers a Traceable Calibration Certificate Service on Temperature Data Loggers. Using reference equipment which has been calibrate by a UKAS/NIST/CNAS accredited laboratory and usi apparatus traceable to national or international standards. | | |
| Start modes | | Immediate, push to start, delayed start, parameter triggered | | | |
| Memory capacity | | Over 1,000,000 total readings >500,000 readings per channel | | | |
| Power source | | 2 x AAA 1.5V battery | | | |
| Battery life | | >1 year (at 25°C with 10 minute logging rate) | | | |
| Dimensions | | 93 x 42 x 17 mm (excluding bracket) | | | |
| Operating temperature range | | -18 to +55°C (-0.4 to +131°F) | | | |
| Environmental rating | | IP4X | | | |
| | | | | | |

INCLUDED IN THE BOX

| | batteries |
|----------------------|------------------------------------|
| EL-SIE WALL BRACKET | Mounting bracket |
| CABLE USB 3.1 C 0.5M | USB A to USB C Cable |
| ACCESSORIES | |
| BAT 1V5 AAA | 2 x AAA 1.5V alkaline batteries |
| CABLE USB 3 1 C 0 5M | LISB A to LISB C Cable |





For pricing or any further information, please contact Omni Instruments Ltd.



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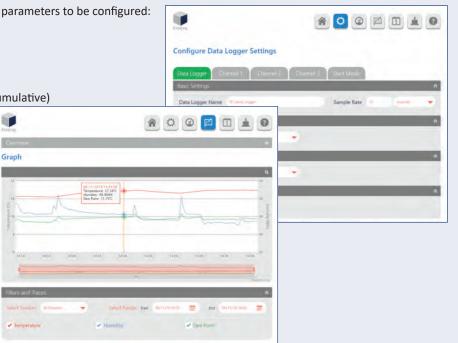
NO SOFTWARE TO INSTALL

All the software needed to configure your EL-SIE-2, and view and analyse the data it logs, is contained within the product itself. Just connect the logger to your PC or Mac with a USB cable, open any web browser and in the address bar type "http://EasyLog.local". No internet connection is needed, and you can save this address in your bookmarks or favourites as normal.

The interface is easy to use and allows the following parameters to be configured:

- Logger and channel names
- Measurement units
- Logging rate and start mode
- Up to 16 separate alarms (high/low/pre-alarm/cumulative) with thresholds, delay and hold
- Display and LED indicator modes

Once the logger is running, you can plug it back into your computer and see the latest data, device status and the event log. You can also choose to stop the logger and change the configuration, or just let it continue logging.



EASYLOG CLOUD DATA STORAGE

Store your data securely, and make it available from any internet-connected PC or mobile device, with EasyLog Cloud. The EL-SIE-2 can upload logged data to the Cloud from your PC or Mac, making sharing and analysis easier than ever. For more information and to set up an account on EasyLog Cloud, visit www.easylogcloud.com.

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DISPLAY STATUS INDICATION



Min Reading Max Reading

Calibration CAL MAX Battery level MIN reminder The high-contrast LCD shows current, maximum and minimum readings, as well as alarm and logger status: Reading Alarm status Сн-¦∏ / Channel No Warning Units Display Logger Status Explanation Display Logger Status Explanation **USB** Connected The logger is still logging The logger is connected Logger Running via the USB cable but can be stopped by a U56 Stop long press of the bottom 1067 button The logger is set up for Push to Start Alarm Triggered An alarm is currently Push to Start logging, a active on the logger long press of either PUSH button will start logging **Delayed Start** The logger is set up for THE. A cumulative alarm is **Cumulative Alarm** Delayed Start logging and active on the channel will automatically start currently being displayed dLĭ logging at the specified time **Triggered Start** The logger is set up for High Alarm A high alarm is active on Triggered Start logging the channel currently and will start logging as being displayed soon as the specified TRIG limit (either temperature, humidity or pressure) is Low Alarm A low alarm is active on reached the channel currently The batteries are low and Low Battery being displayed should be changed when 6866 possible INU Held High Alarm A high alarm is being held on the channel currently Memory Full The memory is full and being displayed logging has stopped FULL MEM A Held Low Alarm A low alarm is being held on the channel currently The memory is 90% Memory 90% being displayed full, and data should be downloaded when possible High Pre-alarm A high pre-alarm is active Calibration Pending The calibration will expire CAL on the channel currently in < 30 days on the date being displayed ΠĽ shown (can be DD/MM/ SUC YYYY or MM/DD/YYYY) Low Pre-alarm A low pre-alarm is active **Calibration Expired** The calibration has CAL on the channel currently expired on the date 1.1.10 being displayed shown (can be DD/MM/ S05 A YYYY or MM/DD/YYYY)

On power up, the LCD runs through a test sequence in which all elements are activated and the LEDs light up and the sounder beeps.

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LED STATUS INDICATION

The EL-SIE-2 has three LEDs to clearly indicate the status:

| LEDs | Sounder | Status | LEDs | Sounder | Status |
|----------|---------|---|------------|---------|--|
| Flashing | Off | Logger in operation, no alarms or warnings | Flashing | Active | Alarm / Memory Full / Calibration Expired |
| Flashing | Off | Logger primed but not yet logging / Pre-alarm / Memory 90% Full / Calibration Pending (check display for specific warning) | Slow Flash | Off | Battery Low |

BUTTON FUNCTIONS

The two buttons are used to navigate between display screens and control other functions, some of which also create a record in an Event Log, which can be viewed using the web browser.

| Screen | Button | Press | Function | Event Recorded |
|------------------------------|--------|-------|--|-------------------|
| USB | n/a | n/a | n/a | n/a |
| Push to Start | Any | Long | Start logging | n/a |
| Triggered Start | n/a | n/a | n/a | n/a |
| Delayed Start | n/a | n/a | n/a | n/a |
| Channel – Current reading | Тор | Short | Move to next channel or STOP LOG | n/a |
| current reading | | Long | Clear alarm hold for all channels | Clear Held Alarms |
| | Bottom | Short | Show Min reading for this channel | n/a |
| | | Long | Mute alarm sounder | Mute Alarm |
| Channel – Min reading | Тор | Short | Show Min reading for next channel or STOP LOG | n/a |
| | | Long | Reset Max/Min reading for all channels | Clear Max/Min |
| | Bottom | Short | Show Max reading for this channel | n/a |
| | | Long | Mute alarm sounder | Mute Alarm |
| Channel – Max reading | Тор | Short | Show Max reading for next channel or STOP LOG | n/a |
| | | Long | Reset Max/Min reading for all channels | Clear Max/Min |
| | Bottom | Short | Show current reading for this channel | n/a |
| | | Long | Mute alarm sounder | Mute Alarm |
| STOP LOG? | Тор | Short | Move to Channel 1 (or Warning Screen), also generates an Audit Mark when cycling back through to Channel 1 | Audit Mark |
| | Bottom | Long | Stop logging, returns to Push to Start | n/a |
| Warning Screen | Any | Short | Move to next warning or Channel 1 | n/a |

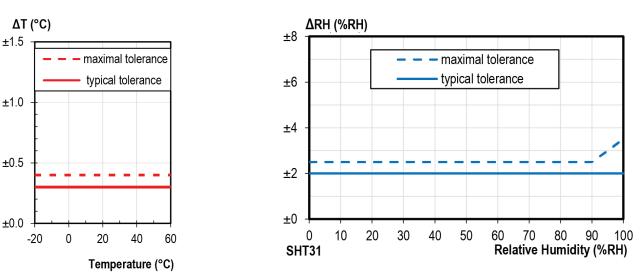
If the display mode is set to Button Press, pressing any button wakes the display up, after which it operates as described above.



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SENSOR ACCURACY AND INFORMATION



Typical and maximal tolerance for the temperature sensor in °C: Typical and maximal tolerance for the relative humidity sensor at 25°C:

Operating Conditions

The performance of the humidity sensor can be affected by long-term exposure to operating conditions at the extents of the logger's range. The sensor shows best performance when operated within the recommended normal temperature and humidity range of 5 to 55°C and 20 to 80%RH, respectively. Long-term exposure to conditions outside the normal range, especially at high humidity, may temporarily offset the RH signal (e.g. +3%RH after 60h kept at >80%RH). After returning into the normal temperature and humidity range the sensor will slowly come back within the calibration state by itself. Prolonged exposure to extreme conditions may also accelerate ageing.

When tracking changes in ambient conditions, the response time of the humidity sensor in your data logger is approximately 20 minutes to reach 90% of the reading. However, if you are measuring step changes in humidity (for example if calibrating the product) it is advised that you leave the unit for up to four hours to ensure that it has enough time to settle at the new level.

It is worth remembering that the value of relative humidity is of course sensitive to temperature variation. As an example, at a relative humidity of ~90%RH at ambient temperature, a variation in temperature of 1°C will result in a change of up to -5%RH. Therefore when comparing multiple devices or calibrating them, any temperature variations must be considered.

The humidity measuring element in the humidity data loggers can be contaminated through exposure to a variety of compounds. These products should not be kept in proximity to volatile chemicals such as solvents and other organic compounds. Generally speaking, if a material or compound emits a strong odour you should not keep your humidity data logger in close proximity to it. If you would like more information, please contact your local Lascar Electronics office.

High levels of pollutants may cause permanent damage to the internal sensor.

BATTERY INFORMATION

We recommend that you replace the batteries annually, or prior to logging critical data. Use only AAA 1.5V alkaline batteries. Before replacing the batteries, disconnect the logger from your computer.

The logger does not lose its stored data readings when the batteries are discharged or replaced. However, the logging process will stop and will not resume until the batteries are replaced and the logger is connected to your computer and the logger is started.

Note that while the logger is plugged into a computer it draws power from the USB port instead of the batteries, which can raise the temperature of the logger slightly. It will return to normal shortly after disconnection.



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