EL-SIE-1

Temperature USB Data Logger, EasyLog Cloud Compatible

- -18 to +55°C (-0.4 to +131°F) temperature 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-1. 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-1, 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)
	Resolution	0.01°
	Accuracy	±0.2°C (±0.36°F) typical
	Long term stability	<0.03°C (<0.054°F) / year
	Measurement units	°C, °F or K
Logging rate		10 seconds to 24 hours, user selectable
Start modes		Immediate, push to start, delayed start, parameter triggered
Memory capacity		Over 1,000,000 total readings
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

BAT 1V5 AAA	2 x AAA 1.5V alkaline 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	USB A to USB C Cable

CALIBRATION CERTIFICATES AVAILABLE

Lascar offers a Traceable Calibration Certificate Service on Temperature Data Loggers. Using reference equipment which has been calibrated by a UKAS/NIST/CNAS accredited laboratory and using apparatus traceable to national or international standards. For more information please see **www.lascarelectronics.com**.

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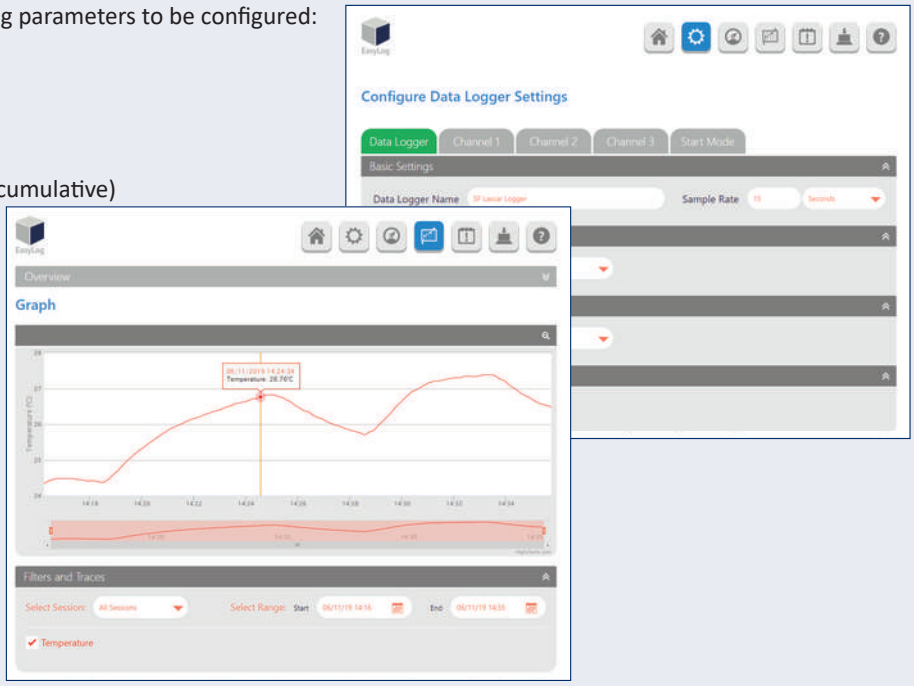
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NO SOFTWARE TO INSTALL

All the software needed to configure your EL-SIE-1, 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:

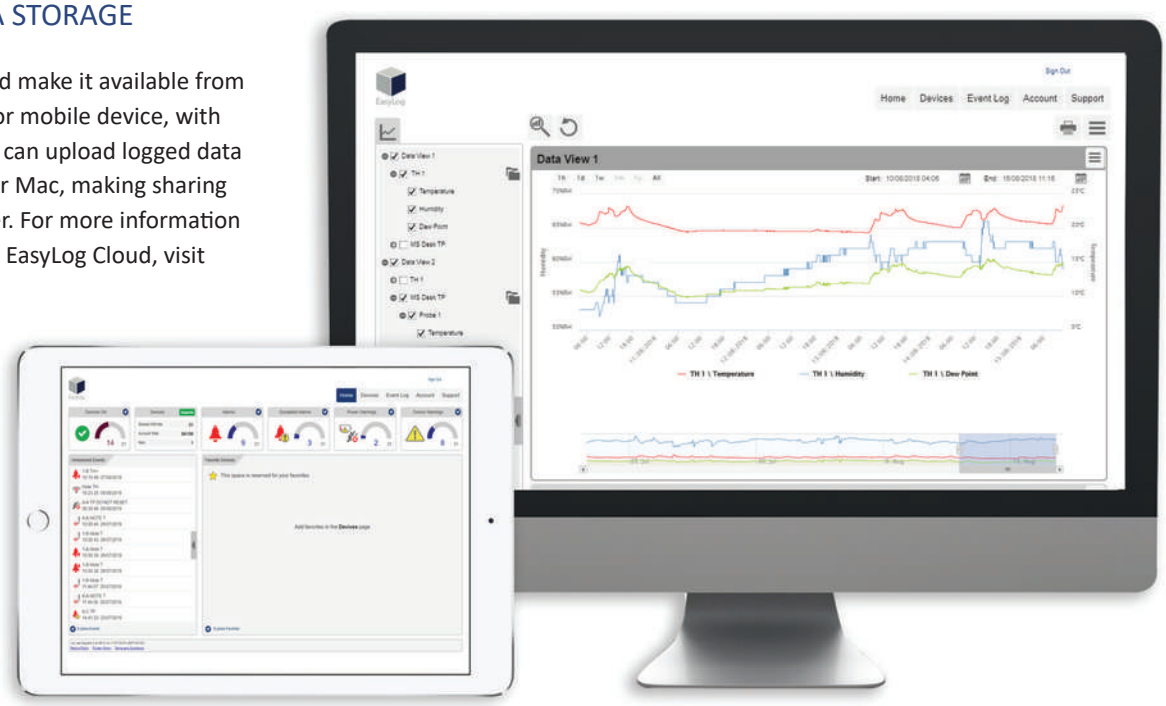
- Logger and channel names
- Measurement units
- Logging rate and start mode
- Up to 16 separate alarms (high/low/pre-alarm/cumulative) with thresholds, delay and hold
- Display and LED indicator modes



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-1 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.

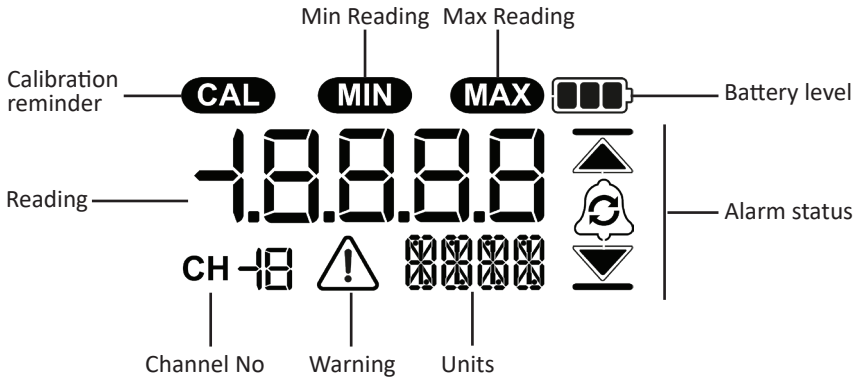


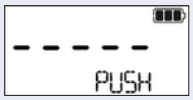
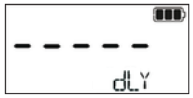
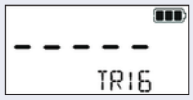
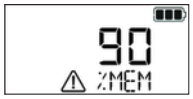
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DISPLAY STATUS INDICATION

The high-contrast LCD shows current, maximum and minimum readings, as well as alarm and logger status:



Display	Logger Status	Explanation
	USB Connected	The logger is connected via the USB cable
	Push to Start	The logger is set up for Push to Start logging, a long press of either button will start logging
	Delayed Start	The logger is set up for Delayed Start logging and will automatically start logging at the specified time
	Triggered Start	The logger is set up for Triggered Start logging and will start logging as soon as the specified limit (either temperature, humidity or pressure) is reached
	Low Battery	The batteries are low and should be changed when possible
	Memory Full	The memory is full and logging has stopped
	Memory 90%	The memory is 90% full, and data should be downloaded when possible
	Calibration Pending	The calibration will expire in < 30 days on the date shown (can be DD/MM/YYYY or MM/DD/YYYY)
	Calibration Expired	The calibration has expired on the date shown (can be DD/MM/YYYY or MM/DD/YYYY)

Display	Logger Status	Explanation
	Logger Running	The logger is still logging but can be stopped by a long press of the bottom button
	Alarm Triggered	An alarm is currently active on the logger
	Cumulative Alarm	A cumulative alarm is active on the channel currently being displayed
	High Alarm	A high alarm is active on the channel currently being displayed
	Low Alarm	A low alarm is active on the channel currently being displayed
	Held High Alarm	A high alarm is being held on the channel currently being displayed
	Held Low Alarm	A low alarm is being held on the channel currently being displayed
	High Pre-alarm	A high pre-alarm is active on the channel currently being displayed
	Low Pre-alarm	A low pre-alarm is active on the channel currently being displayed

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

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LED STATUS INDICATION

The EL-SIE-1 has three LEDs and a sounder to clearly indicate the status:

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

LEDs	Sounder	Status
 Flashing	Active	Alarm / Memory Full / Calibration Expired
 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
Current reading	Top	Short	Move to STOP LOG	n/a
		Long	Clear alarm hold for all alarms	Clear Held Alarms
	Bottom	Short	Show Min reading	n/a
		Long	Mute alarm sounder	Mute Alarm
Min reading	Top	Short	Move to STOP LOG	n/a
		Long	Reset Max/Min reading	Clear Max/Min
	Bottom	Short	Show Max reading for this channel	n/a
		Long	Mute alarm sounder	Mute Alarm
Max reading	Top	Short	Move to 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?	Top	Short	Move to current reading (or Warning Screen), also generates an Audit Mark	Audit Mark
	Bottom	Long	Stop logging, returns to Push to Start	n/a
Warning Screen	Any	Short	Move to next warning or current reading	n/a

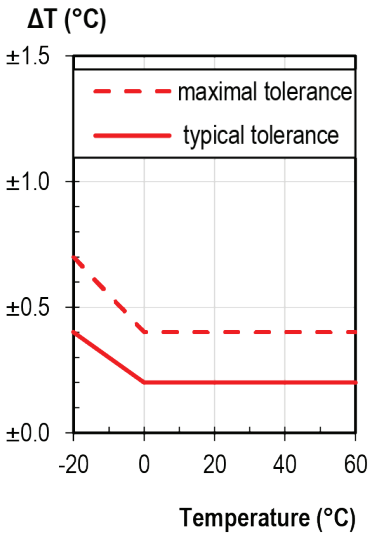
If the display mode is set to Button Press, pressing any button wakes the display up, after which it operates as described above.

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SENSOR ACCURACY AND INFORMATION

Typical and maximal tolerance for the temperature sensor in °C:



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.