Air Quality Monitor EasyLog **User Manual**



WiFi Indoor Air Quality Monitor

Your data, anytime, anywhere

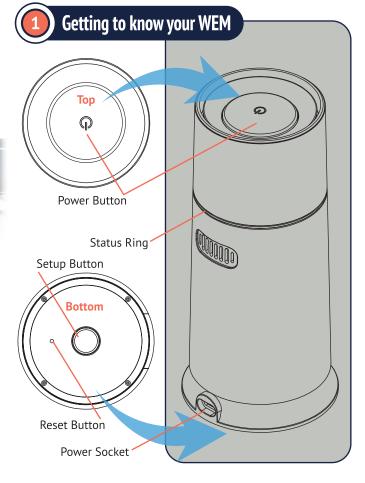


Welcome to your EL-WEM: Indoor Air Quality Monitor

This device measures the quality of the air around you, for your comfort and safety.



Please refer to the Quick Start Guide for information on setting up your EL-WEM.



EL-WEM User Manual

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Power Button

Use this button to turn your EL-WEM on and off. When the device is running, a quick press (less than 1 second) makes the EL-WEM immediately send its data to the Cloud, makes an Audit Mark in the data record, and mutes the sounder if an alarm is active.

Reset Button

Pressing this will restart your EL-WEM; all stored data and the configuration will be retained.

Setup Button

Pressing this for more than 4 seconds puts the device into Setup Mode, for connecting to the Cloud (refer to the Quick Start Guide for details).

Pressing this button for more than 10 seconds erases all stored data and configuration, and reverts to the default settings.



It only takes a few moments to connect your EL-WEM to the EasyLog Cloud, giving you control over your device and access to your data from any internet-connected mobile device or computer.









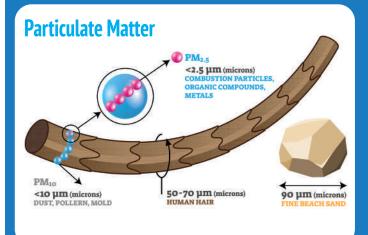
What contributes to Indoor Air Quality

WiFi Indoor Air Quality Monitor

Air quality is a key contributor to feeling comfortable, and staying healthy, at work and in the home. The EL-WEM uses a silent fan to sample the air around it, the internal sensors measuring five important factors.

Particulate Matter (PM)

Tiny particles that hang in the air include pollen, dust, mould spores types: PM10 and the extremely small PM2.5.



Our bodies immediately sense if we are too hot or too cold, but temperature changes can also cause physical reactions that affect our susceptibility to viruses and other airborne diseases. Poor temperatures can also accelerate the growth of mould and bacteria on indoor surfaces.

Humidity

mould growth.

Volatile Organic Compounds (VOC's)

VOC's are gases and chemicals in the air that can have health effects. Many common chemicals and materials emit VOC's, sometimes over long periods of time. These include paint and varnishes, cleaning products and air fresheners, plastics, fabrics and many more.

Air Pressure

to headaches and migraines. It can also have an effect on blood pressure and blood sugar levels.



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How can I improve air quality

You can check to see the measurements taken by your EL-WEM on the EasyLog Cloud website or App. The readings are colour coded so you can see exactly which parameters are best and worst. Readings marked orange or red are ones where you should take action to improve your air quality.



Temperature

If you have a heating or cooling system in your room, you should check the set temperature. Bear in mind the number of people using an indoor space can change the amount of heating or cooling needed. Opening or closing windows and doors, to encourage or prevent draughts, can also be an important step to take.

Humidity

Air conditioning systems and dehumidifiers are an excellent way to keep humidity at comfortable levels. Remember that humidity levels are often set by local atmospheric conditions so opening or closing windows and ventilators can also help control humidity.

Particulate Matter

Particulates will always have a specific source, so you should try to understand where these are coming from in order to control them. They are often in the form of soot created by combustion, so be aware of road traffic, outdoor fires and burning, and indoor fires, stoves and boilers. Particulates can also come from pollen, dust and mould spores, all of which also cause allergies, so it's important to keep your indoor spaces clean, and free from the damp conditions that can accelerate mould growth.

Volatile Organic Compounds (VOC's)

Like particulates, there will always be a specific source or sources of VOC's, and unfortunately these can often be everyday materials we have in homes and workplaces. These can include paint, varnishes and solvents, cleaning products and disinfectants, air fresheners, plastics, fabrics, inks and adhesives. As far as possible they should be stored in closed cupboards or air circulation by opening windows and internal doors, and using fans and ventilators where available.





IAQ Rating Index

Indoor Air Quality is scored out of 20, by adding together scores for four measured parameters. The total score determines the IAQ rating, on five levels, from Excellent down to Inadequate. The status ring colour on your EL-WEM matches the IAQ rating.

IAQ Rating	Excellent	Good	Fair	Poor	Inadequate
IAQ Score	18 or more	16 or more	12 or more	8 or more	Less than 8

The IAQ score is calculated as follows:

	Temperature °C	Humidity % RH	VOC Index	PM10 μg/m³
5 points	18 ≤ T ≤ 21	40 ≤ RH ≤ 60	VOC < 50	PM < 33
4 points	17 ≤ T < 18 21 < T ≤ 22	30 ≤ RH < 40 60 < RH ≤ 70	51 ≤ VOC < 100	33 ≤ PM < 58
3 points	16 ≤ T < 17 22 < T ≤ 23	20 ≤ RH < 30 70 < RH ≤ 80	101 ≤ VOC < 150	58 ≤ PM < 75
2 points	15 ≤ T < 16 23 < T ≤ 24	10 ≤ RH < 20 80 < RH ≤ 90	151 ≤ VOC < 200	75 ≤ PM < 91
1 point	T < 15 T > 24	RH < 10 RH > 90	VOC ≽ 201	PM ≽ 91



- Example: Temperature 10°C (1 point), Humidity 9% (1 point), VOC 220 (1 point), PM10 96 (1 point) = 4 points total, IAQ rating is Inadequate.
- You can find a copy of this table, including Temperature in °F, by clicking the 🕜 help icon next to the measurement readings in the EasyLog Cloud.







WiFi Network Features



After you've connected the EL-WEM to your WiFi network, if the power button starts flashing it means the monitor has been unable to connect to the network to upload data. The EL-WEM will automatically try to reconnect, but you should also check if your WiFi network is available. If you want to perform an immediate upload to the Cloud and your network is available, do a short press of the power button. This will create an audit mark in the event record. To reconfigure the WiFi settings (e.g. to change your EL-WEM to use a different WiFi network), press the Setup button on the base of the unit for 4 seconds.





Also available: High Accuracy EL-WEM+

The EL-WEM+ monitors two additional parameters for even more accurate Indoor Air Quality measurements:

- Carbon Dioxide (CO₂), a key indicator of air circulation and freshness
- PM1 particulates, the smallest and most damaging class of particle pollution

