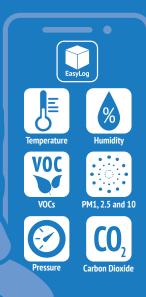


- Your data, anytime, anywhere

EasyLog

- Records CO₂ and Indoor Air Quality (IAQ) with alarms
- Measures:
 - CO₂
 - Temperature
 - Humidity
 - VOCs
 - Particulate Matter
 - Pressure
- Automatically uploads data to the EasyLog Cloud
- Coloured status ring shows IAQ level
- Audible and visual alert with email and SMS notifications available
- Detects VOCs from paints, lacquers, paint strippers, cleaning products, furnishings, glues, adhesives and alcohol
- Control multiple devices and view data anywhere with EasyLog Cloud and App
- Power supply included
- Internal back-up battery if power interrupted

The EL-WEM+ continually monitors Indoor Air Quality, with a coloured status ring to display the IAQ level at a glance. It also automatically uploads data to the EasyLog Cloud, allowing your complete set of data measurements to be viewed, analysed and downloaded from any internet-enabled device.



The IAQ level is rated in five levels from Excellent to Inadequate, and if it reaches either of the two lowest levels the status ring turns red. Using the EasyLog Cloud, you can set emails and SMS messages to notify you as soon as this happens. You can also activate an audible alert sounder, and set a daily Do Not Disturb period if you wish.

The EL-WEM+ is simple to set up, with a single button press and the EasyLog Cloud App.

To maintain accuracy, the CO₂ sensor in the EL-WEM+ automatically self-calibrates when operating.

A power supply is included and the unit also has an internal back-up battery, allowing it to continue operating in low power mode if mains power is temporarily lost.

www.lascarelectronics.com



at a glance

EasyLog

09/2024

ssue 7



WiFi CO, and Indoor Air Quality Monitor

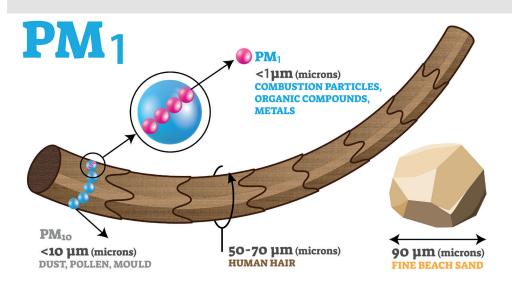
EL-WEM+

What Contributes to Indoor Air Quality?

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 and soot from engines and fires. In high concentrations these can cause allergic reactions and health problems. The EL-WEM+ measures three types: PM10, PM2.5 and the extremely small PM1.



Temperature

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

The amount of moisture in the air can affect how well our bodies can maintain a comfortable internal temperature. Low levels can lead to irritated skin and eyes, and high humidity can stimulate mould growth.

Volatile Organic Compounds (VOCs)

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

со,

Exposure to CO_2 can produce a variety of health effects. These may include dizziness, restlessness, difficulty breathing, sweating, tiredness, increased heart rate and elevated blood pressure. High CO_2 readings can also indicate poor ventilation.

Air Pressure

High atmospheric pressure can exacerbate joint pain and contribute to headaches and migraines. It can also have an effect on blood pressure and blood sugar levels.

How Can I Improve Indoor Air Quality?

The easiest and most important way is to open windows to allow fresh air in, and also to encourage air circulation by opening any internal doors. Also use fans and ventilators where available, and keep rooms clean and free of dust and pet hair. Remove sources of pollutants such as chemicals and cleaning products, and make sure all sources of combustion emissions (such as boilers and cookers) are clean and well maintained. Air conditioning systems and dehumidifiers can help keep both the temperature and humidity within comfortable





IAQ RATING INDEX

Indoor Air Quality is scored out of 25, by adding together scores out of 5 for five 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	≥ 23 points	≥ 20 points	≥ 15 points	≥ 10 points	< 10 points

The IAQ score is calculated as follows:

	Temperature °C	Humidity % RH	VOC Index	ΡΜ10 μg/m³	CO ₂ ppm
5 points	18 « T « 21	40 < RH < 60	VOC < 50	PM < 33	CO ₂ < 600
4 points	17 « T < 18 21 < T « 22	30 ≤ RH < 40 60 < RH ≤ 70	51 ≼ VOC < 100	33 ≤ PM < 58	600 ≤CO ₂ < 800
3 points	16 « T < 17 22 < T « 23	20 < RH < 30 70 < RH < 80	101 ≤ VOC < 150	58 ≼ PM < 75	800 ≤ CO ₂ < 1500
2 points	15 « T < 16 23 < T « 24	10 < RH < 20 80 < RH < 90	151 < VOC < 200	75 ≼ PM < 91	1500 ≤ CO ₂ < 1800
1 point	T < 15 T > 24	RH < 10 RH > 90	VOC ≥ 201	PM ≽ 91	CO ₂ ≥ 1800

• Example: Temperature 10°C (1 point), Humidity 9% (1 point), VOC 220 (1 point), PM10 96 (1 point), CO₂1850 (1 point) = 5 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.

CONNECTING TO THE CLOUD



Plug in the power supply, then press the central button to turn the device on. Download and login to the EasyLog Cloud App on your mobile device. Select "Setup Device" and follow the onscreen instructions to add your EL-WEM+.

	Sign Out English		
EasyLog	Home Devices Account Suppo		
Devices Ok 🔮 WFi Devices System	Primary Alarms 🜒 Escalated Alarms 🕥 Power Warning 🕥 Device Warning		
31 49 Shared With Ide 49 Account Total 50/200 New 6			
Unresolved Events	Ferourite Devices		
WIFI TPX AndyL 3 17:25:04 25:08/2020	S-C Mote T		
WFI TPX AndyL 4	Temporative		
4-A Mote 19:16:43 24/08/2020	Probe 1 Probe Disabled QDev EasyLogCloud Team > MOTE Test Rig > Column 5		
P WFISensorA 12:34:04 24:08/2020	AndyPorch		
→ 3-D Mote 09:08:29 24/08/2020	Temperature Humidity 59 148H		
→ 3-D Mote 09:08:29 24/08/2020	QDev EasyLogCloud Team - Andy's Disk		
C Explore Events	C Explore Favourites		

You can now view the EL-WEM+'s data and change settings either in the EasyLog Cloud App or by visiting your account at: www.easylogcloud.com

> **LASCAR** electronics

www.lascarelectronics.com



EL-WEM+ WiFi CO, and Indoor Air Quality Monitor

EasyLog Cloud Your Data: Anytime. Anywhere.



Easily access your most important data, anywhere



Automatic emails alerts and SMS



Graph, review and analyse your data





event log system



Connect data loggers from multiple sites in one account



Remotely manage all of your data logger devices



Access your vital data from any internetenabled computer, tablet or mobile device with EasyLog Cloud. From single locations to worldwide operations, the system is perfectly scalable and can run through your existing wireless networks.

Critical events are notified to specific users in seconds via an alarm system that's easily tailored to your exact requirements.

Data is accessible 24/7 and powerful online tools make it simpler than ever to view, compare and analyse readings. An audit trail is automatically created that includes both system and data events.

Starter and Professional accounts are available, always flexible and with no locked-in contracts.



Available for Android and Apple devices, the EasyLog Cloud app enables you to monitor and manage your wireless sensors on the go.

09/2024

ssue 7











Your data, anytime, anywhere

WiFi CO, and Indoor Air Quality Monitor

EL-WEM+

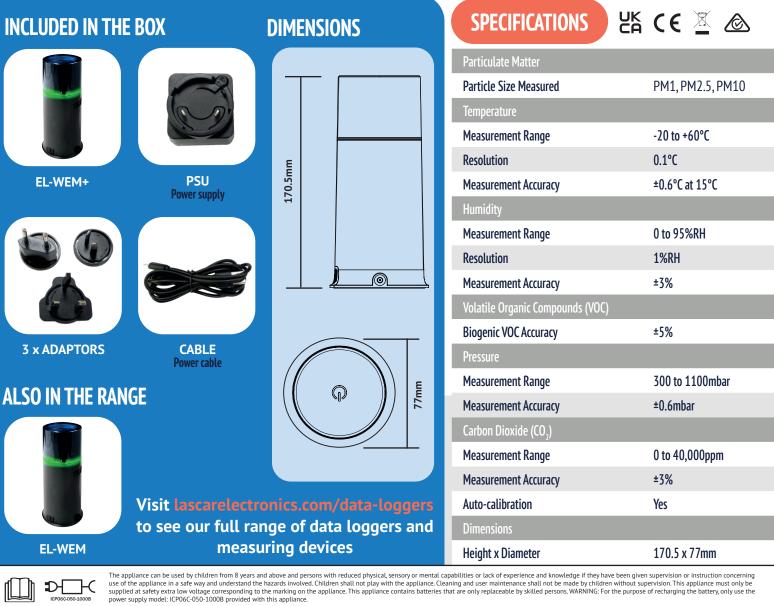
EasyLog

CO, CALIBRATION

To maintain the accuracy of your EL-WEM+, there are two calibration features on the device: automatic and manual calibration.

Automatic self-calibration ensures long-term stability without the need for any manual action from the user. This method of calibration assumes that the sensor is exposed to background atmospheric CO₂ concentrations of ~400ppm at least once per week. If your device is rarely exposed to background CO, concentrations (i.e. 'fresh air'), you should carry out a manual recalibration (see below) on a regular basis, ideally once per week.

Manual recalibration can be carried out to restore the accuracy of the CO, reading immediately at any time; expose the device to fresh air by placing it outside or next to an open window. Press the Power button for more than 10 seconds to start the process and your EL-WEM+ will recalibrate itself.



CAUTION: Do not put this product, or any of its parts in your mouth or allow prolonged skin contact. Keep out of reach of children.

09/2024

ssue 7

DAMAGE: If this product becomes damaged beyond repair, it should be disposed of immediately, and safely as per below.

DISPOSAL: Dispose this product in accordance with local, state/regional, and federal/national regulations. Do not dispose in household waste.

www.lascarelectronics.com

