

# ECOMLITE

## CONNECTED STATION FOR INDOOR COMFORT MONITORING



Ecomesure, air quality specialist, designed ECOMLITE to monitor the key parameters for indoor air quality and comfort in commercial and residential buildings: concentration of particles, CO<sub>2</sub>, VOCs, CO, NO<sub>2</sub>, noise, temperature, humidity and pressure.

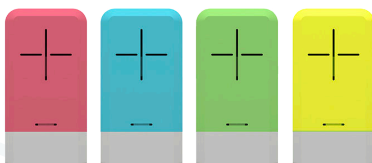
Easy to install, ECOMLITE connects automatically to the environmental data web platform [www.i-comesure.com](http://www.i-comesure.com) for real-time data monitoring and sensors remote control.



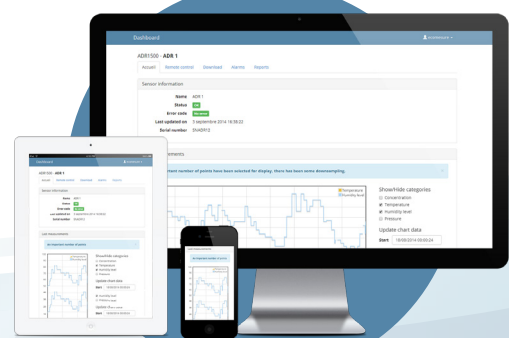
Ethernet/Wifi  
Options : 3G/4G,  
LoRa, LTE-M  
or Zigbee



Secure web server  
[i-comesure.com](http://i-comesure.com)



Choice of colors



### + BENEFITS

- + All-in-one multi-parameter monitor
- + Extremely easy to use
- + Comprehensive services on web platform
- + Affordable price
- + Easy and low-cost maintenance

### + APPLICATIONS

- + Residential buildings
- + Smart offices, open spaces
- + Smart buildings
- + Meeting rooms, open space, restaurants, hotels

## ECOMLITE

ECOMLITE  
SPECIFICATIONS

Communication with the web server	Ethernet & Wi-Fi Optional with Zen Pack : 3G/4G, LTE-M, LoRa, Zigbee
Access to web services	<a href="https://www.i-comesure.com">https://www.i-comesure.com</a> Encrypted and secure data exchanges using SSL certificate
Web services	User support   Mapping   Data real time display   Multi-display mode (index and scientific)   Device status   Device remote control   Data storage   Data downloading (direct download in xlsx, csv, sending by FTP protocol)   Alerts/alarms by SMS and/or E-mail   Data analytics reports - access   Virtual Integrated Devices (VID)   Data ciphering   API link   Database export   Data logger
Frequency of measurements	Every minute, possible adjustments according to customer demand (10 min. in LoRa)
Power supply	5 VDC USB, 500 mA ma, Optional: integrated back-up battery (8h of autonomy, 12h in LoRa) AC adapter included: 90-264 VAC 50/60 Hz
Dimensions	H7 x L3.5 x P3 Inches (H175 x L85 x D73 mm) / 0.5 kg
Internal fastening	Installed vertically
Certifications	CE class B, FCC class A pending
Patent	Applicable in France, Europe, United States N° 1552497 (French National Institute of Industrial Property) N° WO2016/151096 (European Patent Office) N° 10064083 (US Patent & Trademark Office)

Upgradable to EHS (Environment, Hygiene, Safety) applications by simply swapping the sensor cartridge

SENSOR CARTRIDGE  
SPECIFICATIONS

	Range	Accuracy*
PM <sub>10</sub>	< 1000 µg/m <sup>3</sup>	> 100 µg/m <sup>3</sup> ± 15% ; < 100 µg/m <sup>3</sup> ± 15 µg/m <sup>3</sup>
PM <sub>2.5</sub>	< 1000 µg/m <sup>3</sup>	> 100 µg/m <sup>3</sup> ± 15% ; < 100 µg/m <sup>3</sup> ± 15 µg/m <sup>3</sup>
CO <sub>2</sub> sensor	400 to 2000 ppm	50 ppm at full scale
VOC sensor	0 to 1000 ppb eq. isobutylene	10% at full scale
CO sensor	0 to 1000 ppm	10% at full scale
NO <sub>2</sub>	0 to 10 ppm	10% at full scale
Noise	10 - 80 dB SPL	1 dB
Temperature	-40 to 185 °F (- 40 to +85 °C)	1°F (0.5°C)
Humidity	0 to 100 %	3%
Pressure	300 to 1100 hPa	0,12 hPa
Corrections	Drift corrected as a function of temperature, relative humidity and ageing	
Dimensions	H5 x L3.5 x D1.5 (H128 x L85 x D38 mm)	

\*The measurement uncertainty can increase slightly when the concentrations become very low due to electronic noise inherent to sensors.