ECOMLITE

CONNECTED STATION FOR INDOOR COMFORT MONITORING
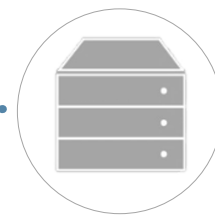
i

PATENTED — TECHNOLOGY

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_2, VOCs, CO, NO_2, noise, temperature, humidity and pressure.
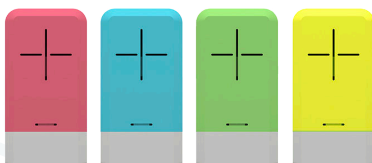
Easy to install, ECOMLITE connects automatically to the environmental data web platform www.i-comesure.com for real-time data monitoring and sensors remote control.

AIR QUALITY

11

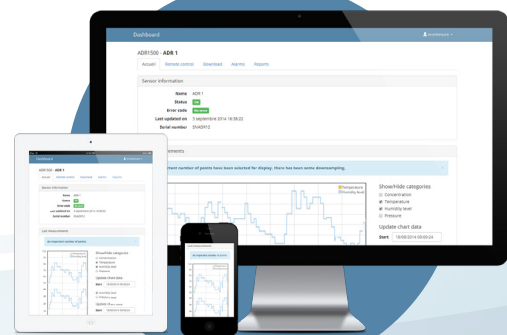Main pollutant :
Volatile organic compounds (VOC)

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

Secure web server
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	https://www.i-comesure.com Encrypted and secure data exchanges using SSL certificate
Web services	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 I 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_{10}	< 1000 µg/m³	> 100 µg/m³ ± 15% ; < 100 µg/m³ ±15 µg/m³
$PM_{2.5}$	< 1000 µg/m³	> 100 µg/m³ ± 15% ; < 100 µg/m³ ± 15 µg/m³
CO_2 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_2	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.

MADE IN FRANCE