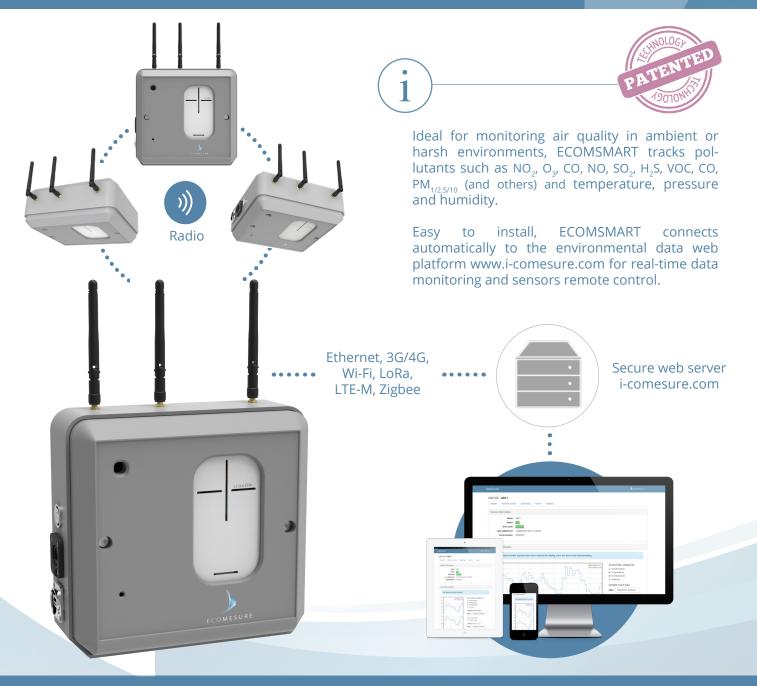
ECOMSMART

CONNECTED STATION OF MULTIPARAMETERS MEASUREMENT OF AMBIENT AIR QUALITY





- + All-in-one multiparameter monitor
- + Ongoing quality of measurements
- + Easy to use, accurate and affordable
- + Centralized services on i-comesure.com
- + Stand-alone version (solar panel & battery)

(%)

APPLICATIONS

- Smart cities
- + Industrial sites (quarries, mines, airports, ports)
- Workshops, warehouses, work-sites
- + Road construction

Precision

3 ppb

6 ppb

10 ppb

5 ppb

5 ppb

2ppb

 $4 \mu g/m^3$

2% HR

1 hPa

32° F (0.3C)

5 ppb | 100 ppb

10 ppm at full scale

ECOMSMART

SPECIFICATION

Communication with the web server

Ethernet - Wi-Fi – 3G/4G/GPRS - LTE-M - LoRa - ZigBee Pro - Sigfox ready Encrypted and secure data exchanges using SSL protocol

Digital I/O

1 Digital Input / 1 Digital Output

Localization

Accelerometer, GPS

Access to web services

https://www.i-comesure.com Secured by password and SSL certificate

Locally on SD card and external on web server

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 |

Data storage

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 2 A max, Optional: integrated back-up battery (8h of autonomy, 12h in LoRa) Adapter included: 100-240 VAC 50/60 Hz

Solar Panel (55W) / Battery weather-resistant assembly

Dimensions

" Solar kit " Option

L8,2 x H7,8 x P3.5 Inches (L210 x I200 x H90 mm) / 1.2 kg

Clamped onto a post or a fence, weather-resistant (equivalent IP54)

External fastening

Installed vertically

Internal fastening Certifications

CE class B, FCC class A

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)

> Optimized maintenance and calibration: one-step sensor cartridge replacement

MADE IN FRANCE

NO₂ sensor (electrochemical) O₃ sensor (electrochemical) CO sensor (electrochemical) NO sensor (electrochemical) SO₂ sensor (electrochemical) H₃S sensor (electrochemical) COV₅₀ and COV₃₀₀₀ sensor (PID) CO₂ sensor (infrared) PM₁, PM₂₅ et PM₁₀ sensor (optical)

Range **Detection Limit*** 0 to 5000 ppb 3 ppb 0 to 5000 ppb 6 ppb 0 to 8000 ppb 10 ppb 0 to 5000 ppb 5 ppb 0 to 5000 ppb 5 ppb 0 to 2000 ppb 2 ppb 0 to 50 ppm | 0 to 3000 ppm 3 ppb | 50 ppb 0 to 5000 ppm 10 ppm 0 to 1000 µg/m³ $2 \mu g/m^3$ 0 to 120 °F (-20 to +50 °C) 0 to 100% HR / 300 to 1100 hPa

Temperature

Humidity

Pressure

Supplementary measurements

Other gas sensors (including $\mathrm{NH_3}$, $\mathrm{Cl_2}$, HCHO, HCl) and particles (TSP) integrated on demand

Corrections

Drift corrected as a function of temperature, relative humidity and ageing

Cartridge dimensions

H5 x L3.5 x D1.5 Inches (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. VEN - 2020 10 19