

ECOMSMART 2

NEW-GENERATION MULTIPARAMETER OUTDOOR AIR QUALITY MONITOR



4G, Wi-Fi,
LTE-M, NB-IoT



ws.i-comesure.com
secure server

Online platform for viewing and managing data



EcomSmart 2 is Ecomesure's latest generation of ambient air quality measuring monitors.

More connected, compact, and powerful than its predecessor, EcomSmart 2 is a cutting-edge technological solution that allows you to simultaneously monitor up to 10 parameters (gases, particles, environmental factors) in real time. Each integrated sensor is qualified and calibrated according to a well defined process to provide accurate and reliable data.

EcomSmart 2 integrates easily with any Bluetooth measuring device (sound-level meter, anemometer, pyranometer, etc.) to enable comprehensive environmental monitoring.

Its ingenious opening and attachment system makes accessing the device a breeze.

+ BENEFITS

- + Configurable, scalable solution
- + Installs quickly and is easy to use
- + Accurate local measurements
- + Stand-alone version (solar panel)
- + Efficient management and analysis platform

+ APPLICATIONS

- + Urban centres, Smart cities
- + Industrial sites (quarries, mines, airports, ports)
- + Construction and demolition sites
- + Polluted sites and soil
- + Road, tunnel, subway

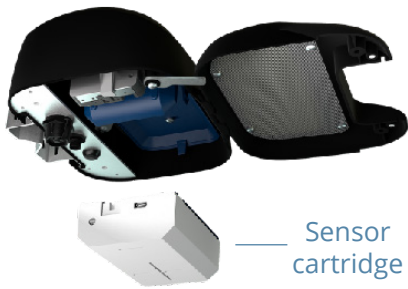
ECOMSMART 2

TECHNICAL SPECIFICATIONS



MEASUREMENT SPECIFICATIONS

Select the sensors of your choice:
up to 3 electrochemical,
1 PID, 1 NDIR and 1 optical sensors



Optimized maintenance and calibration:
one-step enclosure replacement



Dimensions/Weight	8"x 6.25" x 3.8" (204x159x97 mm) / 2.64 lbs (1.2 kg)		
Connectivity	2.4 GHz Wi-Fi Options: 5 GHz Wi-Fi - SIM IoT for 4G, LTE-M, NB-IoT - LoRa		
Set-up	BLE settings app for iOS & Android Remote firmware updates via OTA (Over The Air)		
Frequency	One measurement every 60 s (adjustable for energy-saving needs)		
Localization	Optional accelerometer and GPS		
Access to data	https://ws.i-comesure.com EcomPlay App		
Web services	Mapping Multi-mode data display Device status Device remote control Data storage Data downloading Configurable alerts/alarms Data analytics reports Virtual Integrated Devices (VID) Data encryption API Database export Data logger Weekly programming Data augmented by AI		
Data security	Local + Cloud-based encryption. WPA2-Enterprise compatible		
Data storage	Built-in microSD memory card. Web storage		
Power supply	12VDC 2A max. Power adapter included (100-240VAC 50/60Hz). Optional PoE. Waterproof power supply (IP67) Built-in backup battery (4h, 24h optional)		
"Autonomy kit" option	Solar panel sized according to your project and the level of sunlight		
External fastening	Mounting plate for wall or pole mounting. Weather resistant. Insect screen on door protects the intake from foreign bodies (insects, residues).		
Certifications	CE Class B, FCC Class A		
Sensors*	Technology	Measurement range	Detection limit
NO ₂	Electrochemical	0-20 ppm	< 0.02 ppm
O ₃		0-20 ppm	< 0.02 ppm
CO		0-500 ppm	< 0.02 ppm
NO		0-20 ppm	< 0.08 ppm
SO ₂		0-50 ppm	< 0.02 ppm
H ₂ S		0-50 ppm	< 0.01 ppm
NH ₃		0-100 ppm	< 1.5 ppm
HCHO		0-10 ppm	< 0.01 ppm
Cl ₂		0-20 ppm	< 0.1 ppm
HCl		0-200 ppm	< 1.5 ppm
VOC ₄₀ and VOC ₄₀₀₀	PID	0-40 ppm 0-4000 ppm	1 ppb 100 ppb
CH ₄	NDIR	0-2.5%vol	500 ppm
CO ₂		0-5000 ppm	10 ppm
PM ₁ , PM _{2.5} , PM ₁₀	Laser/Optical	0-1000 µg/m ³	1 µg/m ³
Environmental parameters	Technology	Measurement Range	Accuracy
Temperature	Temperature sensor	14 to 140 °F (-10 to +60 °C)	0.9° F (0.5 °C)
Humidity	RH sensor	0 to 100% RH	3% RH
Pressure	Pressure sensor	300 to 1100 hPa	0.12 hPa
Noise	MEMS Microphone	35 - 100 dB SPL	1 dB

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MADE IN FRANCE

*Specifications of sensors before integration. Performance may differ after integration.

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