

ECOMSMART 2

NEW-GENERATION MULTIPARAMETER OUTDOOR AIR QUALITY MONITOR



Ethernet, 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

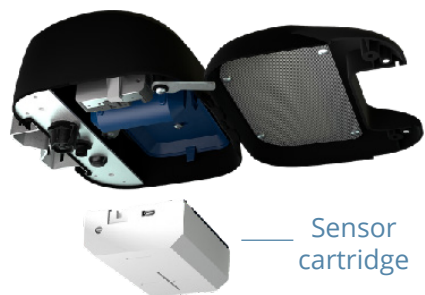
TECHNICAL SPECIFICATIONS



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 - eSIM for 4G, LTE-M, NB-IoT - LoRa - Ethernet
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
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 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).

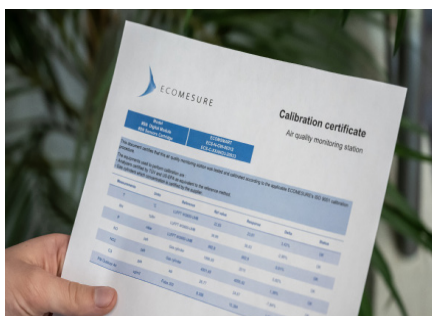
MEASUREMENT SPECIFICATIONS

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



Sensor cartridge

Optimized maintenance and calibration:
one-step enclosure replacement



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	< 3 ppm	
HCHO		0-10 ppm	< 0.1 ppm	
Cl ₂		0-20 ppm	< 0.2 ppm	
HCl		0-20 ppm	< 0.5 ppm	
VOC ₅₀ and VOC ₃₀₀₀	PID	0-50 ppm 0-3000 ppm	1 ppb 50 ppb	
CH ₄	NDIR	0-2.5%	500 ppm	
		0-5000 ppm	1 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	10 - 80 dB SPL	1 dB	

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