ECOMZEN 2

NEW-GENERATION NDOOR AIR QUALITY MONITOR

Very good   Good   Moderate   Poor   Hazardous

A multicolor LED lets you know in real time the air quality index

Secure web server
i-comesure.com

Web platform https://i-comesure.com for data management and visualization

i   **PATENTED** TECHNOLOGY

More powerful, compact and equipped than the previous generation of monitors, EcomZen *2* continuously measures up to 11 parameters including indoor air quality and environmental parameters (temperature, pressure, relative humidity, noise and brightness) with professional grade accuracy.

In addition to boasting a metrological precision ideal for sensitive environments, EcomZen 2 meets regulations and health codes for public places as well as HQE, WELL and BREEAM sustainable building certification requirements.

An all-in-one solution, EcomZen 2 features state-of-the-art technologies. Its dual-core microprocessor and Bluetooth Low Energy (BLE) mode doubles its executing power yet keeps it ultra-connected and energy efficient.

Its new built-in wall mounting system makes it a breeze to install. It can also be recessed or placed on a flat surface to blend seamlessly with any interior.
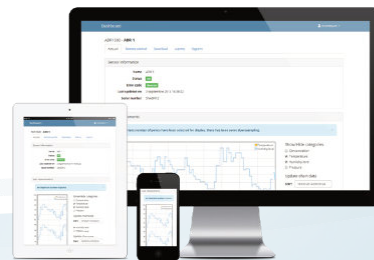
⊕ BENEFITS

- ⊕ Powerful, compact and affordable
- ⊕ Easy to install and use
- ⊕ Built-in multi-parameter system
- ⊕ Calibration process giving accurate measurement
- ⊕ Optimized maintenance - recycling program

APPLICATIONS

- ⊕ Day-care centers, educational institutions
- ⊕ Smart buildings, offices
- ⊕ Hospitals
- ⊕ Train and airport concourses
- ⊕ Malls, hotels, performing arts venues

ECOMZEN 2

TECHNICAL SPECIFICATIONS

Dimensions	H5.5" x W3.3" x L1.9" (H140 x W85 x L50 mm) 0.57 lbs (0.26 kg)
Processor	32 bits Dual Core One measurement every 60 seconds (adjustable from 10s to 1h)
Connectivity	Ethernet, 2.4 GHz Wi-Fi Options: 5 GHz Wi-Fi, LoRa, 3G/4G, LTE-M, NB-IoT
Set-up	BLE settings app for IoS & Android Remote firmware updates via OTA (Over The Air)
Access to data	https://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
Data security	Local + Cloud-based encryption WPA2-Enterprise compatible
Pollution index	Multicolor led
Data storage	Built-in microSD memory card Web storage
Power supply	5 VDC USB-C, 2A max. Power adapter included (90-264 VAC 50/60Hz) Integrated back-up battery (> 4h of use). Option: PoE
Certifications	CE class B, FCC class A

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

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_2S		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%	500ppm
CO_2		0-5000 ppm	1 ppm
$PM_1,PM_{2.5},PM_4,PM_{10}$	Laser/Optical	0-1000 µg/m³	1 µg/m³

Environmental parameters	Technology	**Measurement Range**	Accuracy
Ambient light	Photodiode	0-120 000 Lx	10%
Noise	MEMS Microphone	10 - 80 dB SPL	1 dB
Temperature	Temperature sensor	14 to 140 °F (-10 to +60 °C)	0.9° F (0.5 °C)
Humidity	RH sensor	0 to 100% HR	3% HR
Pressure	Pressure sensor	300 to 1100 hPa	0.12 hPa

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