Mini XT *Wellness+*

CO$_2$ - PM2.5 - LVOC - Temperature - Humidity - Air Pressure - Light - Noise

CO₂/CONFINEMENT

Detection method	Non Dispersive Infrared spectrometry (NDIR)
Measuring range	0 to 5000 ppm
Resolution	1 ppm
Accuracy	± 50 ppm ± 3% of reading value
Response time 90%	< 30 seconds

FINE PARTICLES

Detection method	Laser-based light scattering allowing PM 1/2.5 measurement and PM 4/10 estimation
Sampling method	Active
Measuring range	0 - 1000 µg/m³
Resolution	1 µg/m³
Accuracy	10 µg/m³ (<100µg/m3) or ± 10% of reading value (>100µg/m³)
Particle detection range	0.3 µm - 10 µm
Sensor lifetime	> 8 years under typical conditions of use (schools, offices...)

LVOC (Light Volatile Organic Compounds)

Detection method	Electrochemical
Measuring range	30 ppb to 5 ppm
Resolution	1 ppb
Accuracy	±40 ppb
Response time 90%	< 30 seconds
Definition	Compounds containing up to 4 carbon atoms (aldehydes, alcohols, etc.)

LIGHT

Detection method	Photo resistor
Measuring range	0 - 3 000 lux
Accuracy	1 lux
Resolution	< 30 s

NOISE

Detection method	MEMS
Measuring range	40 - 120 dB SPL
Accuracy	1 dB
Resolution	< 10 s

TEMPERATURE

Type of sensor	CMOS
Measuring range	-55°C to +125°C
Resolution	0.08°C
Accuracy	± 2°C between -25°C and 100°C (±0.5°C after calibration)

HUMIDITY

Type of sensor	Capacitive
Measuring range	0 to 95%
Resolution	0.08%
Accuracy	± 3% between 11% and 89% (± 7% for the rest of the range)

AIR PRESSURE

Type of sensor	CMOS
Measuring range	260 to 1260 hPa
Resolution	± 0.02 hPa
Accuracy	± 2 hPa

GENERAL SPECIFICATIONS

Sampling interval	10 minutes by default (customisable)
Conditions of use	Temperature between 0°C and +30°C. Humidity between 30 and 70 %
Approx. dimensions (L x l x h) / Total weight	190 x 135 x 70 mm / 500 grams
Power supply and autonomy	Plug-in power supply Optional : - back-up option: 1 x 5000 mA back-up battery in case of power cut - terminal block: low voltage power supply (DC 12V/24V - 300mA max)
Display	Flashing LED indicators, 3 colours on configurable CO2 thresholds + operating mode indication
Data communication	Real-time, wireless data transfer: - Via Bluetooth, or mobile application NEMo View (iOS / Android) - NEMo Cloud services via LoRaWAN or LTE Cat-M1 network Optional: - Data downloading from device's internal memory from USB port - Modbus RS485
System requirements	Operating system: Windows 7 or higher, Mac OS 10.9 or higher
Warranty	2 years excluding consumables
Maintenance	Annual field calibration with application calibrator (VOC) Change VOC sensor every two years

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Measurement devices