



The WellAir NanoDetect PRO is a wall-mounted indoor air and environmental quality (IAQ/IEQ) sensor designed for continuous, high-accuracy monitoring in commercial buildings. Listed in the Works with WELL catalog and RESET certified, NanoDetect PRO supports compliance with green and healthy building standards. Its modular architecture enables real-time measurement of up to 15 IAQ and IEQ parameters to support occupant health, building performance, and informed operational decisions.

Sensor Type	Range	Accuracy	Resolution	Technology
PM2.5	0 - 1,000 $\mu\text{g}/\text{m}^3$	0 - 100 μg ($\pm 10 \mu\text{g}/\text{m}^3$) 100 - 1,000 μg ($\pm 10\%$)	1 $\mu\text{g}/\text{m}^3$	Light Scattering
PM10	0 - 1,000 $\mu\text{g}/\text{m}^3$	0 - 100 μg ($\pm 10 \mu\text{g}/\text{m}^3$) 100 - 1,000 μg ($\pm 10\%$)	1 $\mu\text{g}/\text{m}^3$	Light Scattering
Carbon Dioxide	400 - 10,000 ppm	400 - 3,000 ppm $\pm 50 \text{ ppm}$ $\pm 3\%$ of reading 3,000 - 10,000 $\pm 10\%$ of reading	1 ppm	Non-dispersive Infrared
TVOC	1 - 500	$\leq \pm 15$	1	MOx (MEMS)
NO _x	1 - 500	$\leq \pm 15$	1	MOx (MEMS)
Temperature	-40 °C - 125 °C	$\pm 0.2 \text{ }^\circ\text{C}$	0.1 °C	Digital CMOSens technology (MEMS)
Humidity	0% - 100% RH	$\pm 1.8\%$ RH	0.01% RH	Digital CMOSens technology (MEMS)
Light	0.01 - 83,000 lux	$\pm 0.2\%$	0.01 lux	Photodiode
Noise	36 - 95 db	$\pm 3 \text{ dB}$ @ 23 $\pm 5^\circ\text{C}$	1 dB	Digital
Air Pressure	300 - 1,100 hPa	$\pm 1 \text{ hPa}$	0.01 hPa	Piezoresistive Absolute Pressure Sensor (MEMS)

FEATURES:

- Ability to monitor up to 15 IAQ and IEQ parameters in real-time
- Modular, interchangeable sensor capsule design enables rapid addition of sensors to meet specific application requirements, while allowing fast, cost-effective recalibration
- Ability to view IAQ levels at a glance via LED "traffic light" indicator
- Rapid installation and commissioning
- Helps attain LEED, WELL, Fitwel, RESET, and other building certifications

GENERAL SPECIFICATIONS:

- Dimensions = W: 5.9" H: 4.4" D: 1.3"
W: 150mm H: 112mm D: 32mm
- Weight = 0.52 lbs | 235g
- Temperature = 32 °F to 122 °F | 0 °C to 50 °C
- Operating Humidity: 10% - 90% RH (non-condensing)

CONNECTIVITY

Wi-Fi 2.4 anGHz 802.11 b/g/n | Modbus | BACnet | MQTT | Cellular

POWER SUPPLY

10-30V DC | 24V AC | PoE | Type C

MODELS:

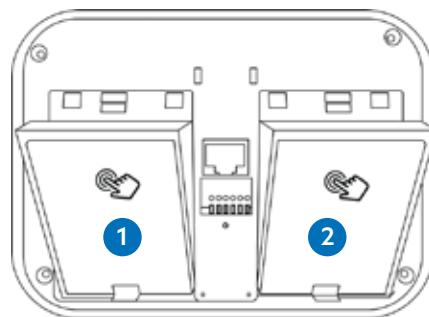
SKU 100080 - NanoDetect PRO (Wi-Fi)

SPECIFICATION SHEET

OPTIONAL SENSORS

The NanoDetect™ PRO provides the ability for a user to add a second sensor capsule that can expand the number of parameters being monitored.

The table below provides a list of the optional sensor(s) and their relevant SKU numbers, as these capsules must be ordered separately.



- 1 Standard capsule
- 2 Optional capsule

OPTIONAL SENSORS SPECIFICATIONS

SKU	Sensor(s)	Range	Accuracy	Resolution	Technology
100083	Nitrogen Dioxide & Carbon Monoxide				
100084	Ammonia and Hydrogen Sulphide		See specifications of individual sensors below		
100085	Ozone	0 - 5 ppm	±5% F.S	0.001 ppm	Solid Polymer Electrochemical
100086	Formaldehyde	0 - 1 ppm	±5% F.S	0.001 ppm	Solid Polymer Electrochemical
100087	Ammonia	0 - 10 ppm	±5%	0.001 ppm	Solid Polymer Electrochemical
100088	Hydrogen Sulphide	0 - 5 ppm	±5%	0.1 ppm	Solid Polymer Electrochemical Sen
100089	Hydrogen	0 - 1000 ppm	±5%	0.001 ppm	Solid Polymer Electrochemical
100090	Sulfur Dioxide	0 - 5 ppm	±5%	0.001 ppm	Solid Polymer Electrochemical
100091	Carbon Monoxide	0 - 1000 ppm	±5 ppm or ±10%	5 ppm	Micro Fuel Cell
100092	Nitrogen Dioxide	0 - 5 ppm	±5% F.S	0.001 ppm	Solid Polymer Electrochemical

COMPLIANCE



FCC ID XMR2023FCM362K

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:

- (1) This device may not cause harmful interference, and
- (2) This device must accept any interference received, including interference that may cause undesired operation.

All stated specifications are subject to change without notice or obligation.

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