



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 ± 50 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	± 0.2 °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	± 3 dB @ 23 $\pm 5^\circ\text{C}$	1 dB	Digital
Air Pressure	300 - 1,100 hPa	± 1 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 GHz 802.11 b/g/n | Modbus | BACnet | MQTT | Cellular

POWER SUPPLY

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

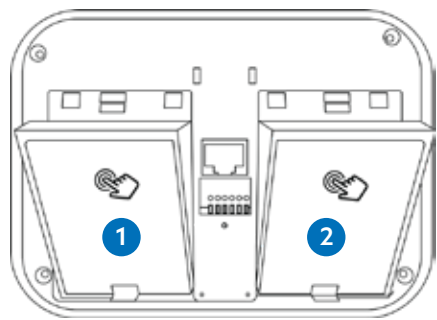
MODELS:

SKU 100080 - NanoDetect PRO (Wi-Fi)

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	See specifications of individual sensors below			
100084	Ammonia and Hydrogen Sulphide				
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.



Plasma Air International LLC 3540 Toringdon Way Suite 200, Charlotte, NC 28277
phone 1 866 508 1118 wellairsolutions.com info@wellairsolutions.com
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