



**VIBRANT**  
BUILDING TECHNOLOGIES

## Sense Specifications

*Disclaimer:* Specifications, performance claims, and product details contained herein are preliminary. Information is based on early testing and may be revised following third-party evaluation and certification processes. Vibrant Building Technologies reserves the right to update all information without notice.

## Sense



Measurements	Sensor Technology	Measuring Range	Accuracy
Carbon Dioxide	Nondispersive Infrared Sensor (NDIR)	0 - 5000 ppm	±40 ppm
Temperature	Digital Sensor	-40 - 125°C	±0.2°C
Humidity	Digital Sensor	0 - 100% RH	±1.8% RH
Total Volatile Organic Compounds	Medal Oxide (MOX) Technology	0 - 65000 ppb	±12%
Particulate Matter* (PM2.5, PM10)	Light Scattering Laser Particle Sensor	0 - 1000 µg/m³	±10% (PM2.5) ±30% (PM10)
Carbon Monoxide	Electrochemical Sensing Technology	0 - 50 ppm	±5%
Nitrogen Dioxide	Electrochemical Sensing Technology	0 - 5 ppm	±5%
Ozone	Electrochemical Sensing Technology	0 - 10 ppm	±5%

## Sense with Radon



Measurements	Sensor Technology	Measuring Range	Accuracy
Carbon Dioxide	Nondispersive Infrared Sensor (NDIR)	0 - 5000 ppm	±40 ppm
Temperature	Digital Sensor	-40 - 125°C	±0.2°C
Humidity	Digital Sensor	0 - 100% RH	±1.8% RH
Total Volatile Organic Compounds	Medal Oxide (MOX) Technology	0 - 65000 ppb	±12%
Particulate Matter* (PM2.5, PM10)	Light Scattering Laser Particle Sensor	0 - 1000 µg/m³	±10% (PM2.5) ±30% (PM10)
Carbon Monoxide	Electrochemical Sensing Technology	0 - 50 ppm	±5%
Nitrogen Dioxide	Electrochemical Sensing Technology	0 - 5 ppm	±5%
Ozone	Electrochemical Sensing Technology	0 - 10 ppm	±5%
Radon	Ionization Chamber Technology	0 - 10 ppm	±8%

## Device Specifications

Spec	Sense without Radon	Sense with Radon
Dimensions	2.8" W x 2.8" D x 2.0" H	2.8" W x 2.8" D x 4.55" H (2" main body + 2.55" radon body)
Connectivity	Wi-Fi 2.4 GHz (802.11 b/g/n), Bluetooth LE, Thread – powered by Nordic BMD-340 + WiSeMCU WM20C	Wi-Fi 2.4 GHz (802.11 b/g/n), Bluetooth LE, Thread – powered by Nordic BMD-340 + WiSeMCU WM20C
Power	5V 2.1A DC USB adapter and cable	5V 2.1A DC USB adapter and cable
Data Sampling Interval	5 Minutes	5 Minutes
Warranty & durability	Standard 1 year. Expected lifespan 5-7 years	Standard 1 year. Expected lifespan 5-7 years
Installation	Wall mount or on a flat surface like a table	Wall mount or on a flat surface like a table
Cable management	Set of caterpillar clips (x3) included	Set of caterpillar clips (x3) included
Maintenance	Annual sensor recalibration with swappable sensor module	Annual sensor recalibration with swappable sensor module