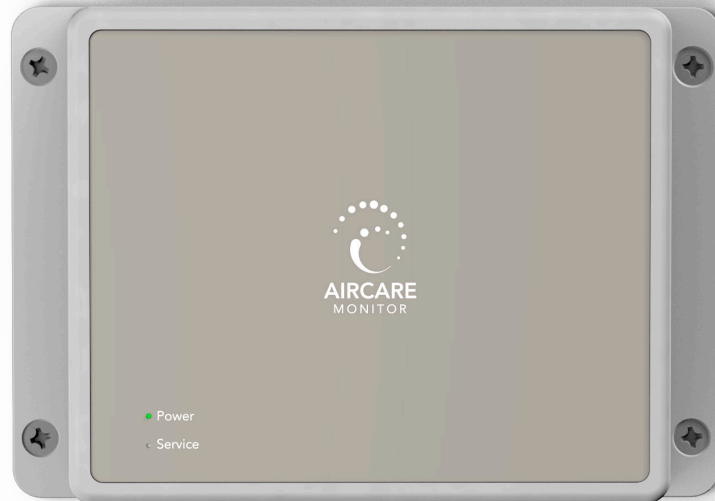# FOR BUILDING MANAGEMENT

Building occupants need better indoor environmental conditions in order to grow and thrive. Our company provides a precise and confident solution to building management experts and occupants who want to achieve their goals with the AIRCARE Monitor.

PACKAGE CONTENT

AIRCARE MONITOR
Power Adapter
USB Drive with User Manual
4 Phillips screws
Quick Start Guide

PRODUCT DIMENSIONS

Dimensions: 3.59 x 1.83 x 5.66"
(9.1 x 4.6 x 14.3 cm)
Weight: 1.94 lb. (0.88 kg)

POWER & WARRANTY

Power: 7-15VDC (<2 Watts)
Warranty: 2 year limited warranty.
Extended warranty available.

MOUNTING

Supports wall mounting or placement on table. Optimum product placement is breathing height of 3 - 6 ft (110 - 170 cm) above floor.

PRODUCT FEATURES

Sensors: PM0.3, PM1, PM2.5, PM10, VOC, CO2, Relative Humidity, Temperature, and Air Pressure.

PRODUCT SPECIFICATIONS

Operational Environment (Temperature, Relative Humidity):
41° to 104°F (5° to 40°C) / 20% to 95% non-condensing
Storage Conditions: 32° to 122°F (0° to 50°C) / Up to 98% non-condensing.

Firmware updates require a computer
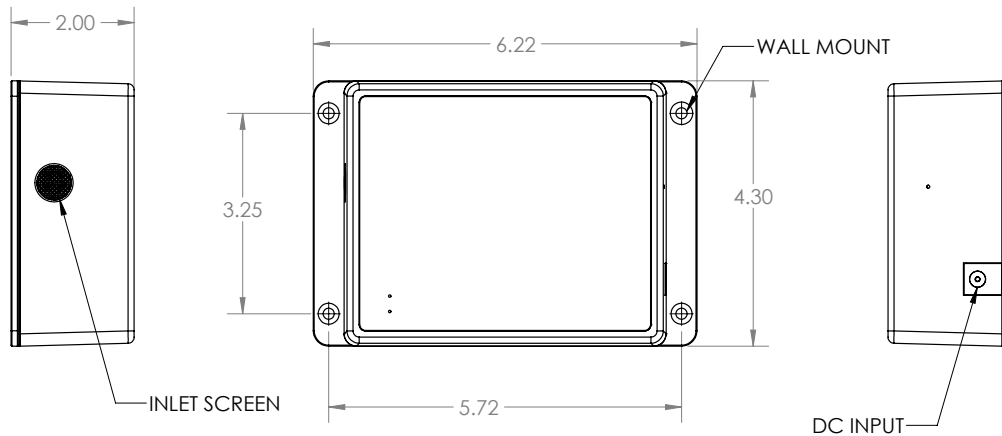Wi-Fi frequencies: 2.412 GHz to 2.472 GHz depending on region.

SENSOR SPECIFICATIONS

Size Range	0.3 to 10 µm
Size Channels	Factory calibrated at 0.3, 0.5, 0.7, 1.0, 2.5, and 5.0 µm
	Variable binning - user defined channel sizes
Number of Channels	6 channels (up to 30 optional)
Counting Efficiency	50% @0.3 µm; 100% for particles > 0.45 µm per JIS
Flow rates	1.2 LPM ±3%
Concentration Limit	27,000,000 particles/ft^3 @ 10% coincidence (per ISO 21501-4),
	50,000,000 particles/ft^3 @ 10% coincidence (as tested and validated[1])
Aerosol Concentration Range	0.01 to 20,000 µg/m^3
Resolution	0.00003 µg/m^3
Light Source	Long life laser diode
Zero Count	<1 count / 60 minutes (<1 particles / 6 ft^3). No fault count subtraction.
Count Alarms	1 to 9,999,999 counts
Calibration	NIST traceable
Vacuum Source	Internal vacuum pump with HEPA filter
Filtered Exhaust	Internal HEPA filter
Airflow	Internally monitored
Configuration/Download	USB mini-B
Communication Modes	Modbus RTU/ASCII over isolated RS-485 or Modbus TCP over Wi-Fi, Wired Ethernet, or POE
Environmental Sensor	(Optional) Temperature ±2°C, RH ±9%, CO_2 ±50ppm, Barometric Pressure ±2.5mbar
Standards	ISO 21501-4 and JIS B9921
Instrument Calibration	Recommended minimum once every three years
External Surface	Plastic, with overlay
Optional Accessories	Printed manual, IMS-RT monitoring system
Buffer Memory	60,000 samples (rotating buffer) including particle count data and optional environmental data
Sample Time	1 second to 99 hours

1- Validated by independent analysis see paper available at www.particlesplus.com/aac2022_paper

2.00   6.22   WALL MOUNT   3.25   4.30   INLET SCREEN   5.72   DC INPUT

Powered by

CE

PARTICLES PLUS®

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