



A200-CM

Introduction

The Aeropulse A200-CM is a comprehensive, battery-powered air quality monitor that tracks a wide range of critical environmental parameters. It delivers high-accuracy measurements of:

- Particulate Matter (PM2.5, PM10)
- Carbon Dioxide (CO₂)
- TVOC & NO_x
- Temperature, Humidity, and Air Pressure

Powered by 6 AAA batteries, the device supports over 300 days of continuous operation on Wi-Fi.

Key Features:

- **Comprehensive Monitoring:** Monitor 8 critical environmental parameters in one device—including PM2.5, CO₂, and TVOC.
- **Extended Battery Life:** Operates for over 300 days on 6 AA batteries with a 60-minute measurement interval while connected to Wi-Fi.
- **Dual-Band Wi-Fi Connectivity:**Seamlessly connects to both 2.4 GHz and 5 GHz Wi-Fi networks.
- **Flexible Installation:**Designed for both wall-mounting and tabletop use, offering versatile placement options.

- **High-Precision Compliance:** Delivers industry-leading accuracy and complies with rigorous global building standards, including ANSI/ASHRAE 62.1-2022, California Title 24, RESET® Grade B, and the WELL Building Standard™ (WELL v2).
- **Customizable Settings:** Allows for easy adjustment of measurement and data upload intervals via the mobile application.
- **Remote Monitoring & Management:** Provides real-time access to data and device management through the complimentary Aeropulse dashboard and mobile applications.
- **Comprehensive Alerts:** Features a 3.7-inch display for clear visual feedback, a multi-level CO₂ indicator, and a built-in buzzer for immediate audible alarms.

Sensors and Measurements

Particulate Matter (PM2.5)

Range	0 to 1,000 µg/m ³
Accuracy	0~100µg (±10µg/m ³), 100~1000µg (±10%)
Resolution	1 µg/m ³
Technology	Light Scattering

Particulate Matter (PM10)

Range	0 to 1,000 µg/m ³
Accuracy	0~100µg (±10µg/m ³), 100~1000µg (±10%)
Resolution	1 µg/m ³
Technology	Light Scattering

Carbon Dioxide (CO₂)

Range	400 - 5,000 ppm
Accuracy	±30.0 ppm ±3.0 %m.v.
Resolution	1 ppm
Technology	Photoacoustic NDIR

TVOC

Range	0 – 500
Accuracy	≤ ± 15
Resolution	1
Technology	MOX (MEMS)

NO_x

Range	0 – 500
Accuracy	≤ ± 15
Resolution	1
Technology	MOX (MEMS)

Temperature (°C)

Range	-40°C~125°C
Accuracy	± 0.2°C
Resolution	0.1°C
Technology	Digital CMOSens® technology (MEMS)

Humidity

Range	0% ~ 100% RH
Accuracy	± 1.8% RH
Resolution	0.01 % RH
Technology	Digital CMOSens® technology (MEMS)

Air Pressure

Range	300...1100 hPa
Accuracy	~ ±1 hPa for Absolute accuracy (950...1050 hPa, 0...+40°C) ± 0.12 hPa (typical) equivalent to ±1 m for relative accuracy p = 700...900hPa (Temp. @ 25°C)
Resolution	0.01 hPa
Technology	Piezoresistive absolute pressure sensor (MEMS)

General Device Details

Wi-Fi	2.4&5 Ghz, 802.11b/g/h
Power Supply	6 AAA batteries or USB Type-C
Operating Temperature	0°C~50°C
Operating Humidity	10%~ 90% (non-condensing)
Local Data Storage	2 months at 15 minutes interval
Cloud Data Storage	2 years
Dimensions	120mm*94mm*25mm
Weight	235g (not include battery)
LED & Buzzer	3.7 inch screen, AQI level indicator, buzzer alarm
Installation	Wall mount, ceiling mount, tabletop stand
Certifications	CE, FCC, RoHS, REACH
Modbus	Customizable