ATMOCUBE

IAQ Sensor

ProMED USA
products that REALLY work.

Better IAQ starts with better sensors

Good air quality, along with the right levels of light intensity and noise, have a massively positive impact on productivity and wellbeing of frequent space attendants. Atmocube continuously monitors the indoor air quality and notifies you about sudden changes so you can take care of your visitors non-stop. Create environments where people thrive.

- **Covers space up to 3500 sq ft**
- **Integration with BMS and HVAC**
- **Best-in-class sensors with proven accuracy and reliability**

Certifications

RESET
Atmocube is a RESET Grade B accredited air quality monitor. More information can be found here.

MCERTS
The Sensirion SPS30 PM2.5 sensor utilized in Atmocube passed the MCERTS certification (MCERTS Performance Standards for Indicative Ambient Particulate Monitors).

More information and examples of the certificate can be found at: MCerts Certified Products

MCERTS report is available here.

Other Lab Reports
Sondar Lab report on PM2.5 and PM10.
LMEG Lab report on CO2 and TVOC sensors.

Specifications

Air Quality Measurements		
Parameter	**Range**	**Measurement Intervals**
CO2	0 to 5000ppm	1 Minute
PM1.0, PM2.5, PM4.0, PM10 (ug/m3)	0 - 1000 ug/m3	1 Minute
TVOC Index (Total Volatile Organic Compounds Index) Green Building Standard Compliance	Output Signal Range: 1 to 500 VOC Index Points	1 Minute
NOx Index (Total for nitric oxide (NO) and nitrogen dioxide (NO2))	Output Signal Range: 0 to 10 Nox Index Points	1 Minute
Formaldehyde (CH2O)	0 - 1ppm	1 Minute
Temperature (C)	-40 to 125C	1 Minute
Relative Humidity (RH%)	0 - 100% RH	1 Minute
Background Noise Level	30 - 100 dB	1 Minute
Light Intesity	0 - 60000 lux	1 Minute

Comply with green building standards

Meet the healthy building requirements on continuous indoor air quality monitoring with user-friendly and engaging devices.

Detect high concentrations of pollutants and identify harmful building materials right from the project onset with accurate Atmocube sensors.

Atmocube Technical Specifications

SKU: **BF2-E**

Protocols	Interfaces	Power
MQTT Modbus RTU Modbus TCP	Wi-Fi (802.11 b/g/n @ 2.4GHz) Bluetooth 4.1 USB-A RS-485 Ethernet	USB-C, 50/60Hz, 5V @ 2A PoE (Power over Ethernet) Direct wiring, 24V AC/DC

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Sensor Accuracy and Technical Specifications

Parameter	Sensor Model	Range	Accuracy	Measurement Interval
CO2 (Carbon Dioxide)	Sensirion SCD41	0 to 5000 ppm	± 75 ppm @ 400-1000 ppm ± 40 ppm + 5% of the measured value @ 1'001 ppm – 2'000 ppm	1 minute
(Particulate Matter) PM1 PM2.5	Sensirion SPS30 Sensor Specification Statement	0 to 1000 µg/m3	±10 µg/m3 at 0 to 100 µg/m3 ±10 % of the measured value at 100 to 1000 µg/m3 PM2.5 accuracy verified by MCERTS at 0-75 µg/m3 ≤ 5 µg/m3	1 minute
PM4 PM10			±25 µg/m3 at 0 to 100 µg/m3 ±25 % of the measured value at 100 to 1000 µg/m3	
TVOC Index (Total Volatile Organic Compounds Index) Green Building Standard Compliance	Sensirion SGP41	**Output Signal Range:** 1 to 500 VOC Index Points	**Device-to-Device Variation:** <±15 VOC Index points or % m.v. (the larger)	1 minute
TVOC (ppm)*		**Output Signal Range:** 0 to 3 ppm*	15% of the measured value	
NOx Index (Total for nitric oxide (NO) and nitrogen dioxide (NO2))		**Output Signal Range:** 0 to 10 NOx Index Points	**Device-to-Device Variation:** <±15 NOx Index points or % m.v. (the larger)	
CH2O (HCHO, Formaldehyde)	Sensirion SFA30	0 to 1 ppm	±0.02 ppm or ±20% of the measured value, whichever is larger.	1 minute
Temperature	Sensirion STS35-DIS	-40 to +125C	± 0.1 C	1 minute
Relative Humidity	Sensirion SHTC3	0 to 100 %RH	± 2 %RH	1 minute
Atmospheric Pressure	Infinion DPS310	300 to 1200 hPa	± 1 hPa	1 minute
Light Intensity	AMS TCS34725	0 - 60000 lux	±10%	1 minute
Background Noise Level	Knowles SPH0641LM4H-1	30 - 100 dB	±2dB	1 minute

*Using Sensirion conversion algorithm

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