PRODUCT SUBMITTAL
AtmosAware MI

APPLICATION

The AtmosAware™ MI is an advanced air quality monitor with a sleek, screenless design. The MI optimizes indoor air quality by providing accurate and reliable air monitoring solutions, powered by highly accurate optical sensors. Each monitor is individually calibrated with adjustable and customizable modules to measure particles in the air such as PM2.5, TVOCs, CO2 concentrations, as well as temperature and relative humidity.

RESET Certified, the MI has cloud-based calibration that samples the air every second with data points uploaded into its cloud dashboard in real time to enable analysis and automation. Maximum security for data transfer is designed with end-to-end encryption, an industry standard SSL/TLS. Sensors are easily replaceable with a featured red indicator light to indicate when a replacement is needed.

Optional/Available

- PoE Connector
- BACnet/IP

Expected Device Lifespan: 5 to 7 years
Sensor (PM2.5 & TVOC) Required Maintenance Replacement: 2 years

SPECIFICATIONS

General Product Information	
Parameters Measured	PM2.5, TVOCs, CO2, Temperature, RH
Connection	Wi-Fi, Ethernet, Modbus (RS-485)
Included Accessories	USB-C Cable
Available Storage	Cloud, Local
Power Supply	USB-C Plug, Direct Wiring, PoE
Dimensions	155mm x 129mm x 34mm (6.1" x 5.1" x 1.3")
Weight	370g (0.82 lbs)
Technical Information	
Sensor Types	PM2.5 – Laser Particle Sensor TVOCs – Metal Oxide Semiconductor CO2 – Non-Dispersive Infrared Detector Temperature – Digital Sensor Relative Humidity – Digital Sensor
Connectivity & Integration	Wi-Fi Connection (2.4 GHz), Ethernet, Modbus (RS-485), Cloud MQTT, BACnet
Data Storage & Logging	Log Interval: 1 minute, 1 hour, 1 day Data Push Interval: 1 minute Onboard Memory: 1 hour of data
Power Usage	100 to 240 VAC, 12 to 30 VDC, PoE
Max Operating Temp.	0 to 50°C / 32°F to 122°F
Max Operating Humidity	5 to 95% RH, Non-condensing
Certifications	
RESET Certified	Data Quality and Continuous Monitoring

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SENSOR TYPE DETAILS

Particulate Matter Sensor Specification	
Mass Concentration Range	0 to 1,000µg/m³
Mass Concentration Size Range	PM2.5 is 0.3 to 2.5µg/m³ PM10 is 0.3 to 10.0µg
Mass Concentration Accuracy for PM2.5	0 to 30µg/m³; ±3µg/m³ 30 to 1,000µg/m³; ±10% m.v.
Sensor Output Resolution	1µg/m³
Sensor Technology	Laser Particle Sensor (Light Scattering)
Typical Response Time	≤ 10 seconds
Recommended Lifetime	High Pollution (> 200 µg/m³); 1.3 years Low Pollution (< 100 µg/m³); 2 years
Calibration	Calibrated against standardized aerosol mix

CO2 Sensor Specification	
Target Gas Profile	CO2
Measurement Range	400 to 2,000ppm Up to 10,000ppm extended range
Accuracy for CO2	±3% m.v. ±50ppm
Sensor Output Resolution	1ppm
Sensor Technology	Non-dispersive infrared (NDIR)
Typical Response Time	2 minutes by 90%
Recommended Lifetime	15+ years

TVOC Sensor Specification	
Target Gas Profile	Complex mixture of 22 VOCs* as defined by Molhav et al
Measurement Range	0 to 60,000ppb
Accuracy for TVOC	±15%; ±8ppb
Sampling Process	Diffusion
Sensor Output Resolution	1ppb
Sensor Technology	Multi-pixel metal oxide sensor (MOx)
Typical Start-Up Time	0.4 ms
Calibration	Calibrated against ethanol

Temperature Sensor Specification	
Long Term Drift	< 0.03°C/y (32°F/y)
Measurement Range	-20 to 100°C / -4°F to 212°F
Accuracy for °C	±1°C / 33.8°F
Sensor Output Resolution	0.01°C / 32.02°F
Sensor Technology	Digital Sensor
Typical Response Time	> 2 seconds
Recommended Lifetime	10 years

Humidity Sensor Specification	
Long Term Drift	< 0.25% RH/y
Measurement Range	0 to 99% RH
Accuracy for RH	±5% RH
Sensor Output Resolution	0.01% RH
Sensor Technology	Digital Sensor
Typical Response Time	> 8 seconds
Recommended Lifetime	10 years