



Infra

Industrial-Grade Air Quality Monitor

Compact, industrial-grade device for real-time monitoring of particulate matter, gaseous pollutants & weather parameters. Its robust design and connectivity make it ideal for urban, industrial, and infrastructure applications.



Flexible Power Options

Supports AC, DC, and solar power with inbuilt Li-ion battery backup (4 hours).



Weatherproof Design

Robust enclosure built to withstand dust, rain, and extreme outdoor conditions.



Multi-Parameter Monitoring

Tracks PM_{2.5}, PM₁₀, CO₂, NO₂, SO₂, O₃, VOCs, temperature, and humidity.



Real-Time Data Transmission

Wireless IoT-based transmission every 1 minute (configurable up to 15 mins).



User-Friendly Software & Mobile App

Visualize live data, trends & alerts via web & mobile platforms.



Modular Weather Add-ons

Supports rain gauge, anemometer and other weather sensors.



Seamless Connectivity

4G LTE, Wi-Fi, Ethernet, and RS485 for uninterrupted data transmission.



AI-Driven Calibration

AI/ML-based sensor fusion ensures >90% accuracy through adaptive learning.

Parameters

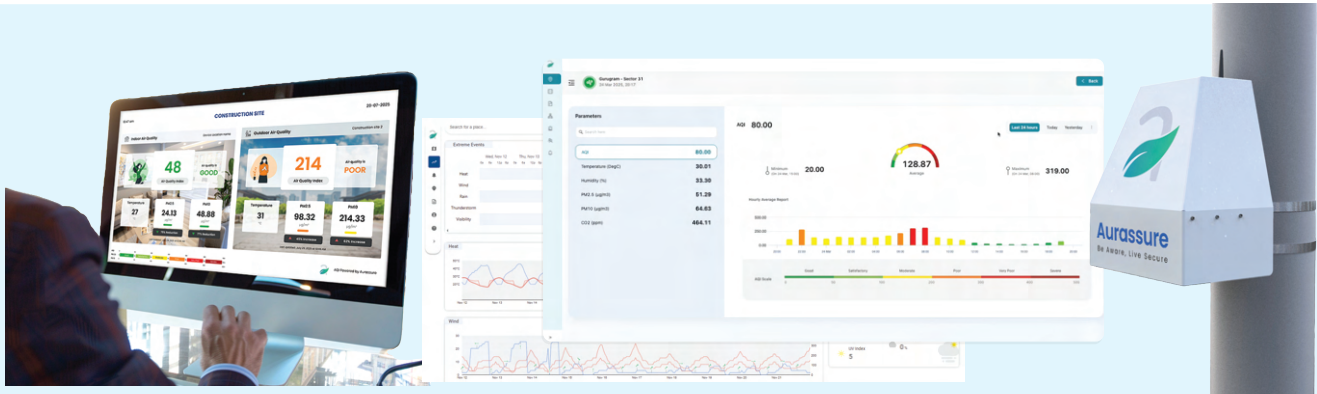
specification

Types	Parameters	Range	Resolution	Accuracy/Drift
Particulates	PM 2.5	0 – 1000 µg/m3	1 µg/m3	±10%
	PM 10	0 – 1000 µg/m3	1 µg/m3	±25%
Gases	NO2	0 – 20 ppm	0.001 ppm	±5%
	SO2	0 – 50 ppm	0.001 ppm	±5%
	CO	0 – 500 ppm	0.01 ppm	±5%
	O3	0 – 20 ppm	0.001 ppm	±5%
	CO2	400 – 10,000 ppm	1 ppm	±50ppm + 5%
	NO	0 – 20 ppm	0.001 ppm	±5%
	More Optional Gas Sensors – NH3, CH4, O2, HCHO, H2S, ClO2, VOC			
Weather	Temperature	-40 to 125 °C	0.01°C	±0.2°C
	Humidity	0 to 100 % RH	0.01% RH	±1%
	Pressure	300 – 1250 hPa	0.001 hPa	±0.50 hPa (Abs.) ±0.06 hPa (Rel.)
	Wind Speed	0.1 – 80m/s	0.01 m/s	±0.2 m/s (≤10 m/s) ±2% (> 10 m/s)
	Wind Direction	0° – 360°	1°	±3°
	Noise	30 – 120 dB (A)	0.1 dB (A)	± 0.1 dB
	Precipitation	0-240 mm/hr	0.2 mm	±2% @ 120 mm/hr
	UV Index	0 – 15	1	±2%
	Illuminance	upto 2,00,000 LUX	100 LUX	±15%
	More Optional sensors – Solar Radiation, PAR, Water Level			



Features

overview



Data Transmission & Storage

Transmission Interval: 1 minute
(Configurable: 30 sec to 15 min)
Local Storage: SD Card upto 128 GB
Cloud Storage: Supported



Power

85 - 264V AC, 50/60Hz
12V 3A V DC
12V 20W Solar Panel



Physical

Enclosure - IP65
Dimension - 240 x 200 x 295 mm
Weight - 4000 g



Connectivity

4G LTE: LTE-FDD B1/B3/B5/B8,
LTE-TDD B34 / B38 / B39 / B40 /
B41, GSM B3/B8
GNSS: GPS, BeiDou
Wi-Fi: 802.11 b/g/n
Ethernet: 10/100 PHY | RS485



Environmental

Designed to withstand all
weather conditions for outdoor
installation.



Mounting

Pole Mount
Wall Mount
Tripod

Trusted by Leaders Across Sectors



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Let's build a safer future together

Empower your organization with real-time environmental insights tailored to protect what matters most.

Get in touch



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