



How clean is the air we breath?

Its platform design includes various sensors for quick and easy monitoring.

AQMS provides real-time **indicative measurement***) of typical air pollutants including VOC and PM1, PM2.5, PM4, PM10.

It allows ambient air monitoring and indoor air quality monitoring in one device. Thanks to its modular setup this instrument can be customised to specific needs.

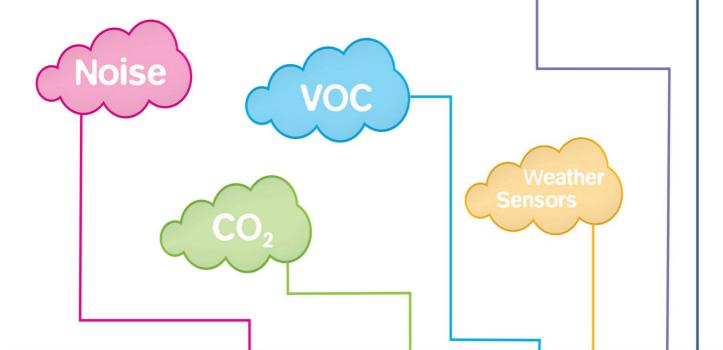
*) Note: Not suitable for threshold monitoring according to Indian regulations

We can provide your product with

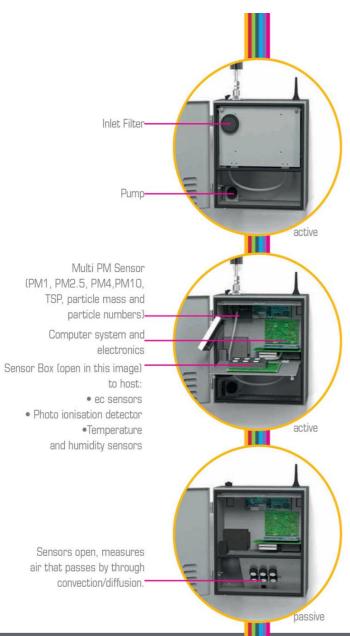
- A multi-fraction optical PM sensor
 (TSP, PM10, PM4, PM2.5, PM 1 mass and numbers)
- CO, sensor (NDIR)
- Meteorological sensor
- Noise sensor
- Traffic control sensor
- Additional gas sensors can be added by wire plug and play (SO2, NO, NO2, O3, CO, H2S, NH3, CH2O)





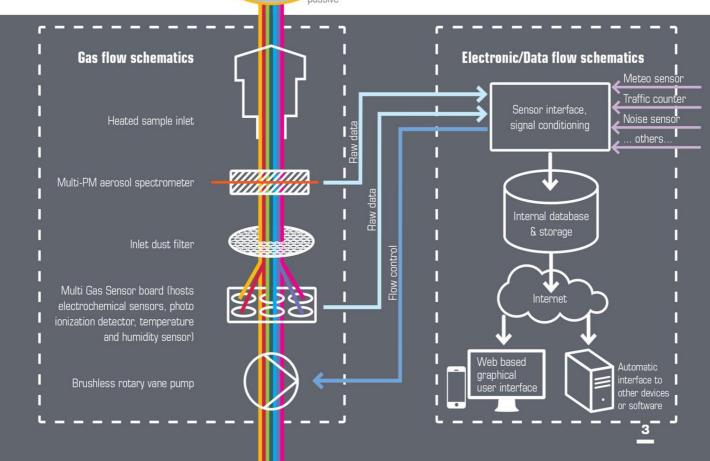






This instrument is available with three different sampling systems:

- Active sampling system for PM with integrated pump and heated sampling head (for use of PMsensor alone or combined with other sensors).
- 2. Active system with non-heated sampling head (not suitable for PM sensor) and pump to ensure optimal air flow to the sensors.
- 3. Passive system based on convection/diffusion without sample pump and sample head.
 - no pump
 - no noise
 - full data control





	System Specification	
Enclosure Material	Powder coated	
Dimensions	L/W/H 370mm/270mm/540mm	
Weight	10 kg (depending on configuration)	
Handle	Carrying	
Power	typical 35 W@ 12 VDC (internal 230/115 VQAC power supply)	
Environmental Operating Range	Temperature: -20°C to + 40°C	
Gas/Dust Sampling System	Optional (active or passive)	
Communications	Standard Ethernet (LAN) Option (Antenna for LTE communication and/or Wifi)	
Control System	Data processing platform with 32bit CPU, 512 MB RAM, 2 HDD (RAID 1) Over 230 sensors preconfigured	

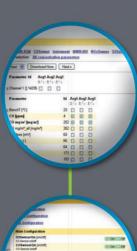
	Multi-PM: PM1, PM2.5, PM4, PM10, TSP concentrations and particle number	
Particle size ranges	Typically two channels – 2.5 and 10.0 µm (optionally available: 1 µm, 4 µm TSP and number concentration)	
Concentration range	0-1,000 μg/m³	
Accuracy	± 10% to calibrated aerosol	
Sensitivity	0.3 μm	
Sample duration	1 minute	
Sample flow:	2 l/min	

	VOC	CO,
Measuring principle	PID	Dual wavelength NDIR
Range	0.01-20 ppm (isobutylene)	0-2,000 ppm low / 0-10,000 ppm high
Detection limit	0.01 ppm (Isobutylene)	6 ppm
T90 response time	< 5 seconds	60 seconds
Temperature range	-20°C to 60°C	-40°C to 60°C
Accuracy	< ± 10%	< ± (50 ppm +2% of reading) (low)

Software and user interface

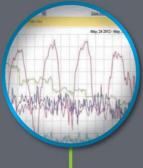
Ultra-compact air quality monitoring system based on well-proven hardware and software.

Some of the many features and screens:



Download

All parameters can be downloaded easily and quickly to your PC. You may configure the default selection of parameters and use Excel for further processing for example.



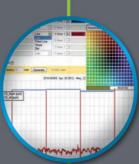
Measurement data displayed in a time diagram

One to six parameters are displayed in a clearly arranged graphic. Zoom function allows for detailed viewing.



Setu

Setup is used for settings in general. Here you may enable or disable the various modules and change units such as ppb and µg/m³.



Graph design

For the purpose of clarity, you may present measurement data in different form and in various colours, e.g. as a line, a filled line, a stack or a bar diagram.



Measurement campaign

Measurements may be assigned to defined time periods and locations.



Radar chart / wil

Measurement data may be displayed in relation to wind direction to localise pollution sources.



Reports

Reports may be defined and automatically created. The results are converted to pdf or xls files



Many applications in industry, environment and health

- Air quality monitoring in public spaces
- Fenceline monitoring
- Industrial applications
- Production facilities (steel mills, chemical industry, refineries)
- Alarms/Hazardous incident monitoring
- Additional measurement points in a tight monitoring network
- Airports, ports, railway stations
- Indoor air quality monitoring
- Volcano observation
- Occupational health
- · Fenceline alarm monitoring
- and much more for your specific monitoring requirements on request



Pre-configured applications are available for:

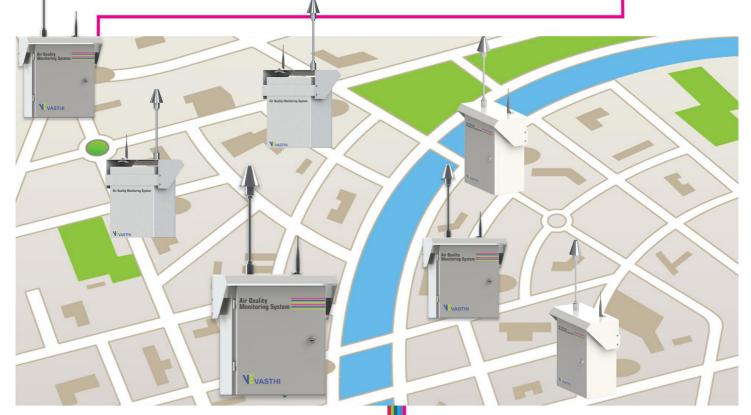


IAQ (Indoor Air Quality) monitoring in schools, offices,



Combined Solutions

Indicative measurement systems enhanced quality insured by type approved airpointer®.



Construction sites monitoring

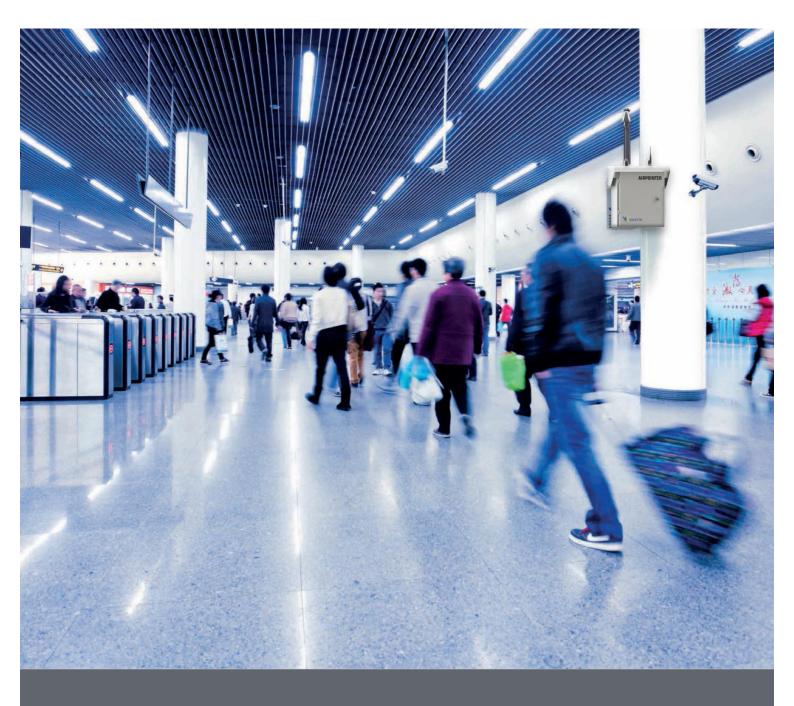


Air Quality Monitoring in Metropolitan Area with airpointer and indicative system

Increase the number of air quality monitoring stations in congested urban or industrial areas

using OEM (Your Brand) - network with indicative sensors and type-approved systems like the mlu-recordum airpointer®.

VASTHI INSTRUMENTS





VASTHI INSTRUMENTS

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