



K D Engineering Solutions

Ambient Air Quality monitor

Company **BACKGROUND**



K D Engineering Solutions is one of the leading manufacturing and export company providing the market with a plethora of **Pollution Measuring & Analytical Instruments**. We are known for our superior quality of products that find usage in a variety of industries. We offer you this product at market leading prices and we are also open to customizing the products to suit your requirements.



KDES

The Need of Future

Why is ambient air quality monitoring necessary?

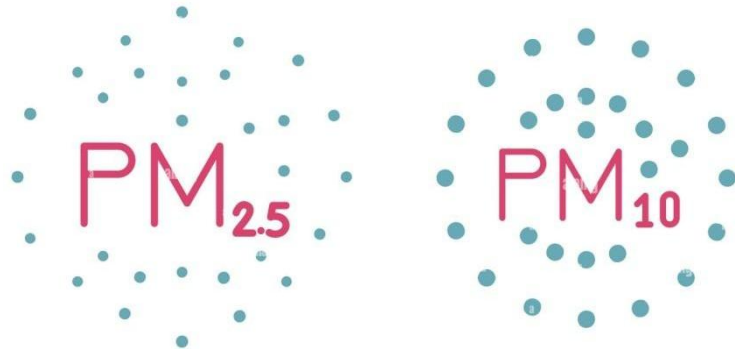


Monitoring helps in assessing the level of pollution in relation to the ambient air quality standards. Standards are a regulatory measure to set the target for pollution reduction and achieve clean air. Robust monitoring helps to guard against extreme events by alerting people and initiate action.

Target Parameter

Specs

Particle counter



- ❖ Detection of PM_{2.5} and PM₁₀ distinctively;
- ❖ Laser sensor with light scattering;
- ❖ Rapid and Accurate Detection.
- ❖ Moisture-Proof circuit board;
- ❖ Anti-dust duct;

- Range : 0-1500ug/m³
- least count : 3ug/m³
- Accuracy : 98%

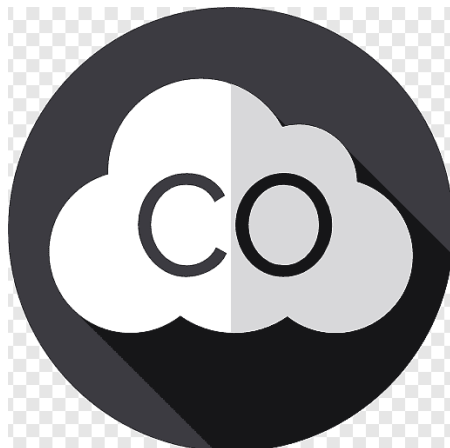
PMQ-01 is an optically designed industrial-grade, digital laser sensor to measure particulate matter. It comes with a built-in laser and photoelectric receiving module.

Different than its contemporaries, PMQ-01 is calibrated for PM₁₀ and PM_{2.5} separately. It works on the principle of 90° light scattering. The light that strikes the aperture of the mirror at 90° is reflected towards the sensor. The photodiode registers pulse for as long as the light is reflected. The electrical signal thus received is converted into the concentration of particulate matter by specific algorithms.

Target Parameter

Specs

Gases



Specification

- Range SOx : 0-10PPM
- Range NOx : 0-10PPM
- Range CO : 0-100PPM
- Operating Humidity : 0-100%
- Operating Temperature : 20 to 80 deg cal
- Accuracy T&H : 97.5%

Features

- ❖ High reliability and long-term stability
- ❖ Electro Chemical Sensors
- ❖ Industry-proven tech with a track record of more than 15 yrs
- ❖ Designed for mass production
- ❖ High process capability
- ❖ High signal-to-noise ratio

Applications

- Industry (As per CPCB guidelines)
- Smart schools
- Hospitals
- Forest air monitoring
- In majority Residential areas
- Research purpose
- Hotels
- Green building projects
- etc



AIR QUALITY INDEX		PARAMETER :	VALUE
254		PM 10	: 46 $\mu\text{g}/\text{m}^3$
		PM 2.5	: 91 $\mu\text{g}/\text{m}^3$
		CO	: 11 mg/m^3
		SO ₂	: 39 $\mu\text{g}/\text{m}^3$
		O ₃	: 48 $\mu\text{g}/\text{m}^3$
		NO ₂	: 90 $\mu\text{g}/\text{m}^3$

Features

AAMQS-QES-01



“Environmental pollution is an incurable disease. It can only be prevented.”

Data logger

- ❖ Electrochemical sensors
- ❖ Proper Display for data visualization
- ❖ Cloud data facility (optional)
- ❖ Data storage for life time
- ❖ Battery backup 18 Hour
- ❖ Easy and user friendly interface
- ❖ Accurate reading
- ❖ Self calibrated
- ❖ IP68 protection enclosure
- ❖ 32 bit micro controller
- ❖ 8 GB Data storage
- ❖ Real time data
- ❖ Low power consumptions
- ❖ Self purging mode
- ❖ RS485 output
- ❖ Interface for DMD display



- Real-time measurement of common pollutants to WHO air quality standards
- Can be installed by one person in less than 30 min.
- Compact size creates new possible monitoring locations
- Remote data acquisition system with fail safe on board storage
- Network mode for urban and national air monitoring
- Modularity allows addition of sensors as needs change
- Temperature control permits long-term operation in extreme climates
- Can be calibrated onsite to traceable reference standards
- Optional integrated and automatic calibration
- Optional plug and play environmental sensors

Other PRODUCT & **SERVICES**



- Ground water level recorder
- Flow meters
- Ambient/Indoor air quality monitors
- Water analyser (CEWQMS)
- Contineous emmition monitoring systems (CEMS)
- Handy samplers
- Flue gas analysers
- VOC Analyser
- DMD displays
- Sound level meters
- Laboratory setup
- rain water harvesting
- ETP/STP/camera
- Calibration of Instruments etc etc.....





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CONTACT US

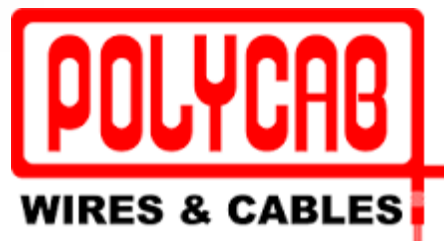
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