



Indoor Air Quality Monitoring System

We spend 90% of our time indoors so it is inevitable to ensure the air we are breathing is fresh and not polluted. Hence Indoor Air Quality is of paramount importance. Poor IAQ imparts to both short and long term health issues.

Sl. No	Description	Parameter*	Details	Specifications	Remarks
1.	Measurement Elements	TVOC, CO2, O3, PM2.5, Temperature, Relative Humidity.			
	Parameters Measured &		Sensor Output Resolution	0.01 PPM	Available
			Measuring Range	0-2 PPM	
		TVOC*	Accuracy	±1% FS	
			Performance Check and Re-calibration	Yes / Replacement Kit	
		CO2(NDIR)*	Sensor Output Resolution	1 PPM	Available
2			Measuring Range	Up to 5000ppm	
			Accuracy	±1% FS	
	Range		Performance Check and Re-calibration	Autocalibration	
		O3 (MEMS)*	Sensor Output Resolution	1 PPB	Optional
			Measuring Range	0 to 1000 PPB	
			Accuracy	±1% FS	
			Performance Check and	Yes /	

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			Re-calibration	Replacement Kit	
		PM2.5*	Sampling Type	Active Airflow	
			Sensor Output Resolution	1μg/m3	
			Measuring Range	0 to 900 micro gms/cum	Available
			Accuracy	±5% FS	
			Performance Check and Re-calibration	Yes / Replacement Kit	
		Temperature*	Sensor Output Resolution	0.1	
			Measuring Range	-10 to 100 Deg. C	
			Accuracy	± 0.3°c	Available
			Performance Check and Re-calibration	Yes / Replacement Kit	
			Sensor Output Resolution	±2%	
			Measuring Range	Upto 100%	
		Relative Humidity*	Accuracy	3%	Available
			Performance Check and Re-calibration	Yes / Replacement Kit	
3	Measurement Frequency	Every 60 seconds			Available
4	Time Stamp	RTC	Not required for MODBUS configuration		Available in GSM/ Wi- Fi mode. In Modbus not provided
5	Connectivity	MODBUS/Wifi/GSM	Default Baud rate - 9600 (can be user configurable), Default Slave Id - 1 (can be user	Priority Start and Stop bits are factory set.	Available





			configurable).(Modbus)				
6	Enclosure	Elegant enclosure, like a Wi-Fi router; One that can be fitted on to the wall or to the ceiling.	Engineering polymer construction		Available		
7	Mounting			Trio Mount - Surface Ceiling and Wall	Available		
8	Stabilization Time	Stabilization Time on power outages < 10 minutes			Available		
9	Visual Indication	LED	Device ON/OFF status	One LED on the enclosure for easy visual indications	Available		
10	Products origin and certification	 Product is Made in India Communications modules are FCC, PTCRB compliant All major components of the Indoor Environmental sensors (like individual sensors etc) are CE certified. 			Available		
11	Dimensions		Size: Approx. 220mm X 180mm X 50mm(customized)		Available		
12	Device Display	Display of measurement	2.4" TFT Colour Display.	Color indication of hygiene of	Available		

Personal Air Quality Systems Private Limited Registered Office, R&D centre: A 308, Block II, KSSIDC Complex Electronics City Phase 1, Bangalore 560100 Ph.+91.80.41508582/+91.9342569490

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		readings of specific		environment;	
		parameter as per the model		showing RED, Green and Yellow.	
13	AQI	Range of hygiene of Indoor Environment will be displayed			Available
14	Operating Range		-10°C to70°C		Available
15	Operating Pressure	Atmospheric			Available
16	Data Collection/ Storage/ Analytics (optional***)	In case of Modbus communication protocol; We would recommend linkage through BMS to PAQS cloud for continued calibration and customised analytics can be provided. (Optional***).			Available
17	Storage at Hardware		Memory Card		Not Available
18	Power Requirements	12V, 2A DC / 230 V AC, 50Hz			If AC, external adapter
19	Battery Backup		8 hours		Available
20	Air Sampling	Designed to ensure laminar flow across all the sensors			Available





21	Suction Fan		Built-in	Available
22	IP	20		Available

*Remark: PAQS Sensors specifications, accuracies are per standard test procedures in lab conditions. The test conditions for each of the native sensors could vary depending on the type of native sensor.

- a. All gas sensors are tested and calibrated @ 23 ±2°C Temp, 50 % RH conditions, individually per established protocols
- b. PM Sensors are tested and calibrated with simulated environment at PAQS lab
- c. For customized applications in specific or varying environments, buyers are required to provide corresponding end conditions for such specific calibrations.
- **Remark: No optional sensors can be added to the PAQS IAQMS Basic Indoor model. Optional sensor feature will be provided for Customized IAQMS model.
- ***Remark: PAQS reserves the right to change specifications.



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