

- *VICKY LIANG*
- *Email: vicky@zwinsoft.com*
- *Mobile/WhatsApp +86 18730252900*



Tianjin Zwinsoft Technology Co., Ltd

ZWIN-AQMS06-M

Portable Mini Air Quality Monitor

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Overview

The ZWIN-AQMS06 Portable Mini Air Quality Monitor is a newly launched product by our company to provide supporting equipment for environmental protection departments and related engineering projects. ZWIN-AQMS06-M detecting air pollutants , provides relevant data and data comparison, and capable of giving alarm . It can detects SO₂, NO_x, PM_{2.5}, PM₁₀), meteorological data (Temperature, Humidity, Air Pressure, Wind Speed, Wind Direction), environmental Noise .Combined with wireless communication technology to achieve real-time data monitoring ,providing effective real-time data to the professionals .

The equipment can display the real-time value of the monitored indicators . The particulate detection adopts the laser scattering method, and other gas detection adopts the electrochemical method. It can store monitoring data for no less than 30 days without interference . There is a USB interface on the instrument ,the collected data can be transferred by it.



Applicable scenario and scope

- (1) Air quality measurement in colleges and universities campus, hospitals campus.
- (2) Air quality inspection within the scope of industrial enterprises.
- (3) Environmental monitoring and supervision departments: unit environmental protection acceptance comparison, routine air detection, market personnel complaint investigation, etc
- (4) Air quality detection on roads and special scenes.
- (5) Air quality measurement in the construction site, material storage shed, coal yard, steel, cement, coking, casting, coal mine and other places prone to dust

Functional Characteristics

1. Fully automatic measurement, integrated design, light weight, easy to carry.
2. PM_{2.5}, PM₁₀, TSP, CO, SO₂, NO₂, O₃ meteorological five parameters and other parameters can be detected at the same time, with high detection accuracy and good repeatability.
3. Equipped with high-precision sensor and long-life negative pressure sampling pump to achieve flow rate extraction with ambient air and ensure more accurate data.
4. Equipped with a detection interface. The data will be output after one minute of warm-up, simplifying the operation steps and facilitating the operation of law enforcement personnel.
5. Touch type 7-inch LED full color screen is adopted.
6. It adopts ultra-low power consumption design, and can work continuously for 8h, supporting fast charging function.
7. Built in 8G large capacity storage space, which can be exported in excel through SD card reader
8. Equipped with Bluetooth printer, the test data can be printed on site.
9. The equipment is equipped with front-end collection and pre filtering device, which avoids the pollution of core sensors and improves the service life of core components on the premise of ensuring the accuracy and stability of equipment values.
10. The equipment reserves an upgrade interface, which can support customers to upgrade and expand their functions in the future.
11. The epoxy resin shell and leakage protection isolation design have strong anti-interference ability and are equipped with high negative pressure imported air pump as standard.
12. The equipment has the data alarm function, and the equipment will alarm when there is an abnormal pollutant data.

Specifications

Parameter		Details
01	Portable Main Kit	Battery powered、signal processing、GPRS transmit Portable,small
02	Particulate Sensor	Principle: light scattering principle Resolution: 0.1ug/m ³ Channel: PM _{2.5} 、PM ₁₀ (selective) Measuring range: 0~10mg/m ³ 、0-30mg/m ³
03	Gas Sensor	NO₂ Measuring Method : electrochemical Measuring range: 0-20ppm Precision:±10 Resolution: 0.01ppm
		SO₂ Measuring Method : electrochemical Measuring range: 0-20ppm Precision:±10 Resolution: 0.01ppm
		O₃ Measuring Method : electrochemical Measuring range: 0-20ppm Precision:±10 Resolution: 0.01ppm
		CO Measuring Method : electrochemical Measuring range: 0-200ppm Precision:±10 Resolution: 0.1ppm
	Meteorological data	Temperature :Range:-40~120℃,Precision:±0.3℃, Resolution:0.1℃
		Humidity :Range:0~100%RH,Precision:2%RH, Resolution:0.1%RH
		Wind speed:Range:0~60m/s,Precision:V0.3m/s , Resolution:0.1m/s
		Wind direction:Range :0~360°, Precision:±3° , Resolution:0.1°
		Air pressure:Range :200~1300hpa°, Precision:±2%° , Resolution:1hpa
04	Power consumption	20W
05	Power Supply	Storage battery power supply
	Charging voltage	5V
	Product material	Shell is plastic waterproof
06	size	Main body box size: 415*340*174mm Main body weight: 8kg