



Micro Air Quality Monitoring System

AM-6 is a small online environmental monitoring system based on high-precision (ppb) gas sensors. The system provides a flexible sensor portfolio and modular design, which can simultaneously monitor various factors such as PM10, PM2.5, SO₂, NO₂, O₃, CO, VOCs, temperature and humidity in the atmospheric environment, according to the monitoring needs. The system can expand various monitoring factors and quickly configure special factors. The unique design with temperature control system improves the micro-air station environment adaptability and ensure the accuracy of monitoring data. Compared with the conventional air station, this system can realize high-density grid layout, realizing air pollution monitoring with high spatio-temporal resolution. With the combination of informative big data, it provides environmental pollution source tracking, warning and forecasting functions, offering more timely and effective decision support for the environmental prevention and control.

Features

- **Modular design and flexible monitoring combination**
 - *Modular designed of monitoring unit.*
 - *Measured factors can be freely expanded and combined.*
 - *High-precision light scattering module realizes simultaneous monitoring of PM10 and PM2.5 concentration.*
- **Ease of installation and maintenance**
 - *Small size, long maintenance interval, low operation and maintenance costs.*
 - *On-site installation is simple and convenient.*
 - *It can use electrical power or solar cell power supply.*
- **Built-in data storage and intelligent data upload**
 - *Built-in GPRS and GPS automatic data transmission.*
 - *Built-in big-capacity data storage.*
- **Various calibration means are optional**
 - *Laboratory calibration: Dynamic dilution calibrator, zero gas generator, standard gas.*
 - *On-site calibration: standard gas cylinders*
 - *Mobile portable calibration equipment*
- **Unique temperature control design**
 - *The modular chassis provides a stable working environment for the sensing unit.*
 - *Realize high and low environment temperature measurement.*

- *Extend the service life of the sensors.*

Technical Parameters

<i>Monitoring factor</i>	<i>Sensor</i>	<i>Range</i>	<i>Detection limit</i>	<i>Linearity</i>	<i>Precision</i>	<i>Unit</i>
<i>S02</i>	<i>EC</i>	<i>0~2</i>	<i>0.005</i>	<i>±1%</i>	<i>±1%</i>	<i>Ppm</i>
<i>N02</i>	<i>EC</i>	<i>0~2</i>	<i>0.005</i>	<i>±1%</i>	<i>±1%</i>	<i>Ppm</i>
<i>NO</i>	<i>EC</i>	<i>0~2</i>	<i>0.005</i>	<i>±1%</i>	<i>±1%</i>	<i>Ppm</i>
<i>CO</i>	<i>EC</i>	<i>0~10</i>	<i>0.040</i>	<i>±2%</i>	<i>±2%</i>	<i>Ppm</i>
<i>O₃</i>	<i>EC</i>	<i>0~2</i>	<i>0.005</i>	<i>±3%</i>	<i>±2%</i>	<i>ppm</i>
<i>PM10</i>	<i>OPC</i>	<i>0~1000</i>				<i>µg/m₃</i>
<i>PM2.5</i>	<i>OPC</i>	<i>0~1000</i>				<i>µg/m₃</i>
<i>VOC</i>	<i>PID</i>	<i>0-50</i>	<i>0.02</i>	<i>±2%</i>	<i>±2%</i>	<i>ppm</i>
<i>Expandable factor</i>	<i>H2S, CO2, HCl, NH3, WD, WS, Pressure, Humidity, Temperature, noise, etc.</i>					
<i>Sampling method</i>	<i>Built-in air pump</i>					
<i>Environment temperature</i>	<i>-20°C~ 50°C</i>					
<i>Environment humidity</i>	<i>0-100%RH</i>					
<i>Environmental pressure</i>	<i>1 ATM</i>					
<i>IP rating</i>	<i>IP56</i>					
<i>Power supply</i>	<i>220V@50hz</i>					
<i>Communication</i>	<i>R S232, Ethernet,WIFI</i>					
<i>Screen</i>	<i>Optional</i>					
<i>Storage</i>	<i>With the SD card, support f or one year of data storage</i>					
<i>GPS position in</i>	<i>With the positioning chip</i>					