

MS1000 Miniature Water Quality Automatic Monitoring System



Control unit: Industrial Panel PC
Display unit: 8 inch LCD touch screen
Communication interface: RS485, USB
Power supply: Rated voltage AC220V±10% Frequency 50±1%Hz

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Description

Hanwei Technology Group Co., Ltd. has recently launched a miniature water quality automatic monitoring system based on years of R&D experience and integration of water quality online monitoring equipment, realizing the intensification of the water quality multi-parameter monitoring system, with more than 20 simultaneous detection parameters, and has a good quality. Scalability provides a monitoring tool for comprehensive evaluation of water environment quality and improvement of drinking water source safety assurance capabilities.

The MS1000 miniature water quality automatic monitoring system can simultaneously and quickly detect various parameters of water quality like: temperature, pH, conductivity, dissolved oxygen, turbidity, chemical oxygen demand (COD Cr), permanganate index (CODMn), ammonia nitrogen, total phosphorus, total nitrogen, etc. It is a new generation instrument, easy to operate, present accurate results. It can use big data to support drinking water source monitoring, water environment evaluation and early warning, scientific regulation of water quality and quantity, as well as governance plan evaluation, governance performance evaluation, river chief assessment, etc., and provide technical support for relevant management bureau to achieve refined water environment management. And according to the demand, it can provide supporting on-site monitoring configuration software and central station software to realize on-site and remote communication and control functions.

This series of water quality monitors mainly consists of the following components:

- 1) control unit
- 2) National standard water quality equipment (total nitrogen, total phosphorus, COD Cr, COD Mn, ammonia nitrogen)
- 3) 5-parameter automatic cleaning sensor

Features

The novel core structure design ensures the premium quality of the monitor

High integration, miniature water quality automatic monitoring system volume is less than 1/5 of conventional water station, space saving

Efficient and sensitive, synchronous and parallel analysis and detection of all parameters of water quality

The measurement range is wide, and the range switching can be performed automatically according to the actual situation of the water sample

High scalability, each detection module has good scalability, and the system synchronous detection parameters can reach more than 20 items at most

Strong anti-interference ability, suitable for industrial sites

Power-off protection design ensures that the monitor is not damaged and data records are never lost

The intelligent design of fault self-diagnosis makes the management and maintenance of the monitor easy and convenient

Application

Water quality section of rivers and lakes, Sewage treatment plant outlet

Specifications

Control unit	Industrial Panel PC
Display unit	8 inch LCD touch screen

Communication Interface	RS485, USB
Power supply	Rated voltage AC220V±10% Frequency 50±1%Hz
Working environment	Temperature: indoor 5°C ~ 40°C, humidity ≤90% (no condensation)
Types of detection	pH, Temperature, Turbidity, Dissolved Oxygen, Conductivity, Chemical Oxygen Demand COD _{Cr} , Ammonia nitrogen, total phosphorus, total nitrogen, permanganate
Dimensions	1260mm × 820mm × 1690mm

Performance/Technical Specifications

Parameter	Range	Resolution	Precision
pH	0~14	0.01	±0.1
temperature	0°C~50°C	0.1°C	±0.5°C
turbidity	0 -1 0 0 0 NTU	0.1NTU	<3%FS
dissolved	0-20mg/L	0.01mg/L	±0.6mg/L
Conductivity	1~2000μS/cm	1μS/cm	±1.5%FS
COD _{Cr}	15-20 00.0mg/L	0.1 mg/L	± 8 %
Ammonia	0. 1 -1 50 mg/L	0.1 mg/L	± 8 %
total	0-50mg / L	0.1 mg/L	± 10 %
total	0 - 50 mg / L	0.1 mg/L	± 10 %
COD _{Mn}	0- 2 0mg/L	0.1 mg/L	± 10 %

SCAD-200 Portable Air Quality Monitor

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Description

The SCAD-200 air quality detection station can monitor PM_{2.5}, PM₁₀, NO₂, SO₂, CO, O₃, temperature, humidity, etc. data in the atmospheric environment, and the collected data can be displayed on screen of the portable computer in real time for on-site personnel's reference, and uploaded to the system cloud platform at the same time. The platform conducts big data analysis based on the data collected at each point, analyze the change pattern of air quality changes, and provides strong data support for macro environmental control policies.

Features

Easy to carry

Battery powered wireless data transfer

Low price

Cloud service for big data computing

High real-time detection

High detection accuracy

Real-time data push is convenient

High protection level to meet the needs of outdoor environment

The cloud processing technology used in the background, the platform collects a large amount of data for comprehensive analysis.

Application

Construction sector

Dust detection in construction or blasting places; construction site, construction site dust exposure monitoring

Production site

Determination of pollution at the production site of industrial and mining enterprises, monitoring of toxic and harmful gases and fixed pollutants at exhaust outlets

Environmental protection

environmental protection monitoring center detects airborne dust and airborne dust, and investigates pollution sources, etc.

Specifications

Monitoring parameters	PM _{2.5} , PM ₁₀ , SO ₂ , NO ₂ , CO, O ₃ , temperature, humidity, wind, wind direction; ammonia, hydrogen sulfide, chlorine, benzene, noise (optional)
Time resolution	3min /time
Power supply	Powered by rechargeable 3.7V lithium battery pack
Working environment	Temp:-30~70°C, 10%< RH<95%, no condensation

Communication method	wireless
Battery	Solar Panel & lithium battery
Operating hours	Continuous work $\geq 300\text{h}$ (20°C)
Storage environment	- 20 °C - 60 °C , RH < 95%
Data transmission	Wireless transmission standard is 4G; optional is LoRa
Sensor life	2 years

SCAD-300 Grid Type Air Quality Monitoring Station



Time resolution: 3min /time

Power supply: Solar power supply , mains power supply

Working environment: Tem:-30~50)°C , 10%< RH<95%, no condensation

Communication method: Wireless, 4G is standard ; LoRa is optional

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Description

The SCAD-300 grid type air quality monitoring station can monitor PM2.5, PM10, NO₂, SO₂, CO, O₃, temperature, humidity, wind speed, wind direction and other data in the atmospheric environment. It can push the monitoring data real-time to the display screen for on-site personnel reference, as well as uploading to the system cloud platform at the same time. The platform conducts big data analysis based on the data collected at each point, analyze the change pattern of air quality , and provides strong data support for environmental macro-control policies.

Features

Easy to install

Solar power or mains power

Clamp or bracket installation

Wireless data transmission

Economic price

Cloud service for big data computing

High real-time detection

High detection accuracy

Real-time data push is convenient

High protection level to meet the needs of outdoor environment

The cloud processing technology used in the background, the platform collects a large amount of data for comprehensive analysis

Application

Construction sector

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Determination of pollution at the production site of industrial and mining enterprises, monitoring of toxic and harmful gases and fixed pollutants at exhaust outlets

Environmental protection

environmental protection monitoring center detects airborne dust and airborne dust, and investigates pollution sources, etc

Specifications

Monitoring parameters	PM _{2.5} , PM ₁₀ , SO ₂ , NO ₂ , CO, O ₃ , temperature, humidity, wind, wind direction , noise (optional)
Time resolution	3min /time
Power supply	Solar power supply , mains power supply
Working environment	Tem:-30~50)°C , 10%< RH<95%, no condensation
Communication method	Wireless, 4G is standard ; LoRa is optional

Operating hours	Continuous without external power supply $\geq 300\text{h}$ (20°C)
Data transmission	Adopt real-time transmission mode, with the function of network disconnection and supplementary transmission
Sensor life	2 years

SCOD-700 Odor Online Monitoring System



Ammonia: 0 ~ 10ppm
Trimethylamine: 0 ~ 10ppm
Hydrogen sulfide: 0 ~ 10ppm
Methyl mercaptan: 0 ~ 10ppm
Methyl sulfide: 0 ~ 10ppm

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Description

Odor pollution is a nuisance pollution that is closely related to people's living environment, and is an important livelihood issue. In recent years, odor complaints have increased year by year in big metropolitan and other economically developed areas with high population density. Odor complaints have also accounted for more than 30 % of environmental complaints in China. In response to the citizens requirement, Hanwei has launched odor detection equipment, which is mainly used to monitor places where odorous gases are generated in production activities such as garbage transfer stations, slaughterhouses, and polluting enterprises. Eight kinds of odorous gases, real-time online assessment and monitoring of odor pollution. The monitor can also monitor meteorological parameters such as wind speed, wind direction, temperature and humidity, and air pressure to evaluate the impact of the meteorological environment on the production of odorous gases.

Features

Pump-suction sampling can filter dust and remove moisture from the sample gas, and the detection unit adopts a constant temperature mode to ensure the detection accuracy. The fully enclosed integrated gas circuit design, combined with the modular sensor design, reduces the difficulty of later operation and maintenance.

It integrates automatic calibration and manual calibration to ensure detection accuracy.

Using the matrix algorithm, the cross-interference of gas to different sensors is eliminated to the greatest extent, and the detection accuracy is further improved.

The 12 -inch color LCD screen is convenient for on-site display of test data and equipment status viewing and setting.

Application

Garbage transfer station, Waste incineration power plant, Polluting enterprises

Specifications

Monitoring object	Range	Resolution	Accuracy
Ammonia	0 ~ 10ppm	0.2ppm _	± 10 % FS
Trimethylamine	0 ~ 10ppm	0.1ppm _	± 10 % FS
Hydrogen sulfide	0 ~ 10ppm	0.01ppm __	± 5 % FS
Methyl mercaptan	0 ~ 10ppm	0.01ppm __	± 5 % FS
Methyl sulfide	0 ~ 10ppm	0.01ppm __	± 5 % FS
Dimethyl disulfide	0 ~ 10ppm	0.01ppm __	± 5 % FS
Carbon disulfide	0 ~ 10ppm	0.01ppm __	± 5 % FS
Styrene	0 ~ 10ppm	0.01ppm __	± 5 % FS
Temperature	-40 ~ 70°C	1°C	±1°C
Humidity	0 ~ 95%RH	1%RH	±2%RH
Wind speed	0 ~ 30m/s	0.1m/s	±0.3m/s

Wind direction	0 ~ 360°	1°	±1°
Air pressure	10 ~ 130kPa	0.1kpa	±0.1kpa
Noise	20 ~ 140dB	1 dB	±1 dB

SC-odor600 Fixed Source Volatile Organic Gas Online Monitoring System



Analytical method: Gas Chromatography, GC+Dual FID

sampling method: Direct extraction + full heat method

FID Baseline Noise: Baseline noise $\leq 5 \times 10^{-14}$ A

FID baseline drift: $\leq 3 \times 10^{-13}$ A / 30min

FID detection limit: $\leq 2.9 \times 10^{-12}$ g/s

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Description

SC-odor600 fixed source volatile organic gas online monitoring system consists of flue gas sampler, temperature pressure flow humidity detector, heating cable, analysis cabinet pre-treatment system, auxiliary gas source, gas analyzer, data acquisition and processing, data transmission, etc. SC-odor600 fixed source volatile organic gas online monitoring system, which can continuously monitor the concentration of various organic gases such as total hydrocarbons, methane, non-methane total hydrocarbons, benzene, toluene, xylene, etc. or other gas concentrations of VOCs components. As well as gas temperature, pressure, flow rate, humidity and other related parameters, as well as statistical emission rate, total emission and other parameters, and can effectively manage the acquired data.

Features

Fully consider the sample gas conditions, dew point and other factors, and design the pretreatment system in a targeted manner

Explosion -proof/non-explosion-proof type optional

Highly anti-corrosion design. All parts that come into contact with the sample (for example, piping, valves, pressure regulators, and flow meters)

Special leak-proof design of sealing components

Based on the design concept of anti-corrosion and anti-leakage to ensure long-term reliable continuous operation of the system

Anti -blocking design of sampling system based on automatic high-frequency and high-pressure back flushing method, reducing maintenance

Advanced system technology, stable and reliable, strong applicability

On the basis of meeting environmental protection requirements, it is economical and reasonable

The system design fully considers the characteristics of environmental protection, and can expand the measurement requirements to improve the utilization value of the system

The analysis method is consistent with the standard method, and the GC-FID method is used to detect

Maintenance -free design for continuous operation, automatic cycle operation after startup, true online analysis

Simultaneous online detection of components such as non-methane total hydrocarbons and benzene series

Application

Petrochemical industry

Fine chemical industry

Biopharmaceutical industry

Rubber products industry

Printing and packaging printing industry

Textile printing and dyeing industry

Spray coating workshop

Electronic semiconductor industry

Synthetic /artificial leather industry

Efficiency monitoring of waste gas treatment device

Specifications

Analytical method	Gas Chromatography, GC+Dual FID
Sampling method	Direct extraction + full heat method
FID Baseline Noise	Baseline noise $\leq 5 \times 10^{-14}$ A
FID baseline drift	$\leq 3 \times 10^{-13}$ A / 30min
FID detection limit	$\leq 2.9 \times 10^{-12}$ g/s
FID detection limit	Non-methane total hydrocarbons: 0.05mg/m ³ Benzene series: 0.05mg/m ³
Range	Non-methane total hydrocarbons: 0-200mg/m ³ Benzene series: 0-40mg/m ³
Indication error	$\leq \pm 2\%$ FS
Repeatability bias	$\leq 3\%$
Zero drift	$\leq \pm 1\%$ FS
Range drift	$\leq \pm 2\%$ FS
Signal output	4-20mA, RS232, RS485
Sample pump flow	5L/min
Gas consumption	H ₂ (30 \pm 10)ml/min
Air consumption	Air (400 \pm 20)ml/min
Carrier gas	Nitrogen, more than 99.999% pure
Carrier gas consumption	N ₂ (80 \pm 10)ml/min
Insulation resistance	Not less than 20M Ω

Water Quality Online Automatic Monitor Series



Measurement principle: COD Potassium Dichromate Method, Salicylic Acid Spectrophotometry , Total Phosphorus and Total Nitrogen Spectrophotometry

Measuring range: Different monitoring factors and different ranges can also set the automatic adjustment amount

Single measurement cycle: ≤ 5 5 min

Display unit: 7 inch LCD touch screen

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Description

This series of water quality monitors adopts the national standard method (can be customized) to conduct real-time online monitoring of water quality, monitors multiple water quality factors (chemical oxygen demand (COD Cr) , total phosphorus, total nitrogen, ammonia nitrogen). And, it can transmit the monitoring data to the platform for Environmental protection departments to monitor the water quality in the river basin in real time. This type of monitor can be widely used in monitoring the water discharged from printing and dyeing, chemical industry, paper-making, electroplating, pharmaceutical, petroleum plants, and other industrial wastewater, domestic sewage, garbage seepage water, surface water etc.

The water quality online automatic monitor series mainly includes: HW-COD3001 chemical oxygen demand (CODcr) online automatic monitor, HW-AN3002 ammonia nitrogen online automatic monitor, HW-TP3003 total phosphorus online automatic monitor, HW- TN3004 online automatic monitoring instrument for total nitrogen has obtained CCEP certificate of China Environmental Protection Products.

Features

The measurement range is wide, and the range switching can be performed automatically according to the actual situation of the water sample

The novel core structure design ensures the perfect quality of the monitor

Power-off protection design to ensure that the monitor is not damaged and data records are never lost

The intelligent design of fault self-diagnosis makes the management and maintenance of the monitor easy and convenient.

Application

Industrial wastewater, domestic sewage, groundwater , surface water

Specifications

Measurement principle	COD Potassium Dichromate Method, Salicylic Acid Spectrophotometry , Total Phosphorus and Total Nitrogen Spectrophotometry
Measuring range	Different monitoring factors and different ranges can also set the automatic adjustment amount
Single measurement cycle	≤ 55 min
Display unit	7 inch LCD touch screen

WQD3100 Water Quality Multi-parameter Detector



Control display unit: touch screen

Communication interface: RS485, USB

Power supply: Rated voltage AC220V±10% Frequency 50±1%Hz

Working environment: Temperature 0°C ~ 45°C, Humidity ≤90% (no condensation)

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Description

The WQD3100 water quality multi-parameter detector is mainly composed of a controller and a water quality sensor. The device can be connected to a variety of digital or analog sensors, and integrate business, flow and other data. Through the instrument control unit, the water intake time, interval time and measurement delay time can be customized.

Features

No need to configure standard solution for detection

Fast and accurate detection

Easy to operate

With automatic water absorption, automatic silt discharge, automatic overflow, automatic cleaning, automatic bacteriostasis, automatic storage and other functions

Application

Water works, Secondary water supply for residential areas

Specifications

Control display unit	touch screen
Communication interface	RS485, USB
Power supply	Rated voltage AC220V±10% Frequency 50±1%Hz
Working	Temperature 0°C ~ 45°C, Humidity ≤90%(no condensation)
Types of detection	pH, Temperature, Conductivity, Dissolved Oxygen, Free
Dimensions	560mm × 380mm ×850mm

Measureme	Range	Resolution	Accuracy
pH	0-14	0.01	±0.1
Temperature	0- 50 °C	0.1°C	±1°C
Conductivit	0-2000µS/cm	±1%	±3%FS
Dissolved	0-20mg/L	0.01mg/L	±3%FS
Residual	0-20mg/L	0.01mg/L	±3%FS
Turbidity	0-10 NTU	0.01	± 5 %FS

HW-PAD01 Portable Air Quality Detector



Time resolution: 3min /time
Power supply: Powered by rechargeable 3.7V lithium battery pack
Working environment: Temp:-30~70 °C , 10%< RH<95%, no condensation.
Communication method: wireless
Battery: lithium battery

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Description

HW-PAD01 Portable Air Quality Detector can monitor PM2.5, PM10, NO₂, SO₂, CO, O₃, temperature, humidity, etc. data in the atmospheric environment, and display the collected data on the display of the portable computer in real time. It can real time display the data for on-site personnel's reference, and data can be uploaded to the cloud platform at the same time. The platform conducts big data analysis based on the data collected at each point, analyze the change pattern of air quality, and provides strong data support for macro-control policies.

Features

Easy to carry
Battery powered,wireless data transfer
Low price
Cloud service for big data computing
High real-time detection
High detection accuracy
Real-time data push is convenient
High protection level to meet the needs of outdoor environment
The cloud processing technology used in the background, the platform collects a large amount of data for comprehensive analysis.

Application

Construction sector
Dust detection in construction or blasting places; construction site, construction site dust exposure monitoring
Production site
Determination of pollution at the production site of industrial and mining enterprises, monitoring of toxic and harmful gases and fixed pollutants at exhaust outlets
Environmental protection
environmental protection monitoring center detects airborne dust and airborne dust, and investigates pollution sources, etc.

Specifications

Monitoring parameters	PM _{2.5} , PM ₁₀ , SO ₂ , NO ₂ , CO, O ₃ , temperature, humidity, wind, wind direction ; ammonia, hydrogen sulfide, chlorine, benzene, noise (optional)
Time resolution	3min /time
Power supply	Powered by rechargeable 3.7V lithium battery pack
Working environment	Temp:-30~70 °C , 10%< RH<95%, no condensation.

Communication method	wireless
Battery	lithium battery
Operating hours	Continuous work $\geq 300\text{h}$ (20°C)
Storage environment	- 20 °C ~ 60 °C , RH < 95%
Data transmission	Wireless transmission standard is 4G; optional is LoRa
Sensor life	2 years

LBM200 Online Automatic Monitor for Oil Fume in Catering Industry



Communication Interface: RS232/RS485, GPRS/CDMA, (0~5)V

Power supply: Rated voltage AC(100~240)V, (50±0.5)Hz

Power consumption: 20W

Sample gas temperature: (-20 ~ 80)°C

Monitor operating temperature: (-20 ~ 60)°C

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Description

The oil fume online monitor is a oil fume online monitoring customer designed in response to the state's supervision of oil fume in the catering industry. The customer can continuously measure the concentration of oil fume, particulate matter, and non-methane total hydrocarbons (NMHC) in the kitchen exhaust duct for 24 hours, and upload it to the monitoring platform or government monitoring platform.

In order to prevent the purifier or the fan from non-operating, the customer can also collect two current signals through the current transformer to monitor whether the purifier or the fan is actually started.

For the operation of the solution installers, the whole machine adopts a 7-inch capacitive touch screen, and the full English interface setting is simple and easy to understand. The customer has a GPRS (optional 4G) communication interface, which can be inserted into a common mobile phone card or an IoT card for data uploading, and data can be uploaded where there is a mobile phone signal.

In view of the complex problem of oil fume components in oil fume monitoring, our company has designed a special sensor, which can accurately analyze oil fume concentration, non-methane total hydrocarbon concentration, and particulate matter concentration, and will not be affected by a large amount of steam generated by steamers and cages in the kitchen. impact, and monitoring is more accurate. With reasonable gas circuit design and advanced oil and gas separation device, it can achieve long-term maintenance-free operation, and can be maintained once every six months at most.

Features

Real-time monitoring of oil fume concentration, particulate matter concentration, and non-methane total hydrocarbon concentration, and can set the upper limit value, and automatically alarm when the limit is exceeded.

2-way current detection, can detect whether the fan and the purifier are working at the same time, can set the detection current alarm value according to the power of the fan and the purifier, adapt to all power fans and purifiers.

Using an open current transformer, it can be measured without cutting the fan or purifier cable.

Three independent working time periods can be set, and the alarm will be issued when the limit is exceeded within the time period, and no alarm will be issued outside the time period.

1-way GPRS (optional 4G) communication interface is provided with a 1-year IoT card, and the data can be directly uploaded to the free cloud platform provided by our company, the government oil fume monitoring platform or the customer's platform.

7 -inch capacitive touch screen is easy to operate. All English operation interface, beautiful and generous.

AC 220V power supply, IP65 protection level, can work outdoors all year round, not afraid of rain and sun.

Application

Residential community restaurant, specialty food street, school, unit canteen

Specifications

Communication Interface	RS232/RS485, GPRS/CDMA, (0~5)V
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Power supply	Rated voltage AC(100~240)V, (50±0.5)Hz
Power consumption	20W
Sample gas temperature	(-20 ~ 80)°C
Monitor operating temperature	(-20 ~ 60)°C
Environment humidity	≤90% (no condensation)
Measuring range	Oil fume concentration 0~10 mg/m3 Particulate matter concentration 0~40 mg/m3 Non-methane total hydrocarbon concentration 0~25 mg/m3
Measurement methods	Laser scattering method, electrochemical method