

## CODet-5000 CODcr Water Quality Online Automatic Analyzer

CODet-5000 is a new type of water quality on-line automatic analyzer for measuring chemical oxygen demand (COD), this product based on the global initiative magnetic conductivity measurement platform, combined with constant optical fiber, dispelling colorimetric integration technology, COD automatic online monitoring have the features include high precision, low detection limit, high stability and low maintenance quantity. This product works in accordance with the technical requirements of 《HJ/T 399-2007 water quality the measurement of chemical oxygen demand-digestion spectrophotometric method》, fully meet the pollution sources, municipal wastewater, industrial processes in the application areas, and has passed the certification of CMC and CCEP.



### Specification

Method: fast digestion spectrophotometric  
 Range: 10~5000~20000mg/L  
 Indication Error:  $\pm 5\%$   
 Repeatability:  $\leq 5\%$   
 Zero Error:  $\pm 2\text{mg/L}$   
 Span Drift:  $\pm 3\%F.S.$   
 Memory Effect:  $\leq 2\text{mg/L}$   
 Working Temperature:  $5^{\circ}\text{C}\sim 45^{\circ}\text{C}$

Quality Control Sample Comparison:  $\text{CODcr} < 20\text{mg/L} \leq 5\text{mg/L}$   
 $\text{CODcr} \geq 20\text{mg/L} \leq 10.0\%$

Water Sample Comparison:  $\text{CODcr} \geq 30\text{mg/L} \pm 10.0\%$   
 Reagent: 1 set reagents is able for about 250 times of measurement (can be customized according to field needs)  
 Maintenance:  $< 2$  hour/month  
 External Interface: RS485/RS232/USBinterface/WIFI/Bluetooth,  $1 \times 4-20\text{mA}$  input/output (expandable to 2)  
 Power: 200W (  $220 \pm 10\% \text{VAC}$  50Hz ) , regardless of the pump

### Feature

Magnetic conductivity measurement technology do not affect by chromaticity, suspended solids and bubbles, especially suitable for the monitoring of inlet water  
 High accuracy and reliability, strong anti-interference capability  
 High precision, low detection limit( $10\text{mg/L}$ ), small amount of instrument drift for a long time  
 Has a key self-check function and self diagnosis function  
 Imported single-channel high integration valve island, simple and easy to maintenance, dismantling and cleaning  
 All-day networking, monitoring meter running state at anytime and anywhere  
 Contain the scan code function, alarm function, quality control and reverse control functions

### Application

Apply to water pollution monitoring, industrial process water, industrial, municipal wastewater treatment and other fields.

## WDet-5000 Ammonia-Nitrogen Water Quality Online Automatic Analyzer

WDet-5000 is based on the global initiative magnetic conductivity measurement platform, combined with constant optical fiber, dispelling colorimetric integration technology, ammonia-nitrogen automatic online monitoring have the features include high precision, low detection limit, high stability and low maintenance quantity. This product works in accordance with the technical requirements of 《HJ/T 535-2009 water quality the measurement of ammonia-nitrogen - salicylic acid method》, fully meet the pollution sources, municipal wastewater, industrial processes in the application areas, and has passed the certification of CMC and CCEP.



### Specification

Method: Salicylic Acid Method  
 Range:  $0.01\sim 2/10/100\text{mg/L}$   
 Indication Error:  $\pm 10\%$   
 Repeatability:  $\leq 3\%$   
 Zero Drift:  $< 0.02\text{mg/L}$   
 Span Drift:  $< 1\%$   
 Quantitative Lower Limit:  $0.01\text{mg/L}$   
 Memory Effect:  $20\%F.S. \pm 0.3\text{mg/L}$   
 $80\%F.S. \pm 0.2\text{mg/L}$

Water Sample Comparison :  $> 2\text{mg/L} \pm 10\%$  ,  $< 2\text{mg/L} < 0.2\text{mg/L}$   
 Quality Control Sample Comparison :  $\pm 10.0\%$

Reagent : 1 set reagents is able for about 250 times of measurement (can be customized according to field needs)  
 Interval : Hourly and interval measurement, and the instrument can also be started by serial port  
 Maintenance:  $< 2$  hour/month  
 External Interface: RS485/RS232/USBinterface/WIFI/Bluetooth,  $1 \times 4-20\text{mA}$  input/output (expandable to 2)  
 Power: 200W( $220 \pm 10\% \text{VAC}$  50Hz), regardless of the pump

### Feature

Magnetic conductivity measurement technology do not affect by chromaticity, suspended solids and bubbles, especially suitable for the monitoring of inlet water  
 High accuracy and reliability, strong anti-interference capability  
 High precision, low detection limit( $0.01\text{mg/L}$ ), small amount of instrument drift for a long time  
 Has a key self-check function and self diagnosis function  
 Imported single-channel high integration valve island, simple and easy to maintenance, dismantling and cleaning  
 All-day networking, monitoring meter running state at anytime and anywhere  
 Contain the scan code function, alarm function, quality control and reverse control functions

### Application

widely used in monitoring of ammonia-nitrogen in water samples of surface water environment, industrial depth processing.

## WDet-5000 Total Phosphorus Water Quality Online Automatic Analyzer

WDet-5000 is a new type of water quality on-line automatic analyzer for measuring total phosphorus, this product based on the global initiative magnetic conductivity measurement platform, combined with constant optical fiber, dispelling colorimetric integration technology, total phosphorus automatic online monitoring have the features include high precision, low detection limit, high stability and low maintenance quantity. This product works in accordance with the technical requirements of 《GB 11893-1989 water quality the measurement of total phosphorus-ammonium molybdate spectrophotometry method》, fully meet the pollution sources, municipal wastewater, industrial processes in the application areas, and has passed the certification of CCEP.

### Specification

|                                                                                                         |                                                                                                                 |
|---------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------|
| Method: Ammonium Molybdate Spectrophotometry                                                            | Quality Control Sample Comparison: $\leq 10.0\%$                                                                |
| Range: 0.1~2/10/50mg/L                                                                                  | Reagent: 1 set reagents is able for about 250 times of measurement (can be customized according to field needs) |
| Indication Error: $\pm 5\%$                                                                             | Interval: Hourly and interval measurement, and the instrument can also be started by serial port                |
| Repeatability: $\leq 3\%$                                                                               | Maintenance: $< 2$ hour/month                                                                                   |
| Zero Drift: $\pm 5\%$                                                                                   | External Interface: RS485/RS232/USBinterface/WIFI/Bluetooth, 1×4-20mA input/output (expandable to 2)            |
| Span Drift: $\pm 5\%$                                                                                   | Power: 200W (220 $\pm 10\%$ VAC 50Hz), regardless of the pump                                                   |
| Quantitative Lower Limit: 0.01mg/L                                                                      |                                                                                                                 |
| Water Sample Comparison: TP $< 0.5\text{mg/L} \pm 0.05\text{mg/L}$<br>TP $\geq 0.5\text{mg/L} \pm 10\%$ |                                                                                                                 |



### Feature

Magnetic conductivity measurement technology do not affect by chromaticity, suspended solids and bubbles, especially suitable for the monitoring of inlet water  
 High accuracy and reliability, strong anti-interference capability  
 High precision, low detection limit(0.1mg/L, even 0.01mg/L), small amount of instrument drift for a long time  
 Has a key self-check function and self diagnosis function  
 Imported single-channel high integration valve island, simple and easy to maintenance, dismantling and cleaning  
 All-day networking, monitoring meter running state at anytime and anywhere  
 Contain the scan code function, alarm function, quality control and reverse control functions

### Application

Apply to the monitoring of pollution sources and surface water, can also be applied to the detection of the sewage treatment process.

## WDet-5000TPN Total Nitrogen Water Quality Online Automatic Analyzer

WDet-5000 is a new type of water quality on-line automatic analyzer for measuring total nitrogen, this product based on the global initiative magnetic conductivity measurement platform, combined with constant optical fiber, dispelling colorimetric integration technology, total nitrogen automatic online monitoring have the features include high precision, low detection limit, high stability and low maintenance quantity. This product works in accordance with the technical requirements of 《GB 11894-1989 water quality the measurement of total nitrogen-Alkaline potassium persulfate digestion-UV spectrophotometry method》, fully meet the pollution sources, municipal wastewater, industrial processes in the application areas, and has passed the certification of CCEP.

### Specification

|                                                                                                    |                                                                                                                 |
|----------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------|
| Method: Alkaline Potassium Persulfate Digestion-UV Spectrophotometry                               | Quantitative Lower Limit: 0.2mg/L                                                                               |
| Range: 0.2~5/25/50mg/L                                                                             | Quality Control Sample Comparison: $\pm 10.0\%$                                                                 |
| Indication Error: $\pm 10\%$                                                                       | Reagent: 1 set reagents is able for about 250 times of measurement (can be customized according to field needs) |
| Repeatability: $\leq 5\%$                                                                          | Interval: Hourly and interval measurement, and the instrument can also be started by serial port                |
| Zero Drift: $\pm 5\%$ F.S.                                                                         | Maintenance: $< 2$ hour/month                                                                                   |
| Span Drift: $\pm 10\%$ F.S.                                                                        | External Interface: RS485/RS232/USBinterface/WIFI/Bluetooth, 1×4-20mA input/output (expandable to 2)            |
| Water Sample Comparison: TN $\leq 2\text{mg/L} \pm 0.2\text{mg/L}$<br>TN $> 2\text{mg/L} \pm 10\%$ | Power: 200W(220 $\pm 10\%$ VAC 50Hz), regardless of the pump                                                    |

### Feature

Magnetic conductivity measurement technology do not affect by chromaticity, suspended solids and bubbles, especially suitable for the monitoring of inlet water  
 High accuracy and reliability, strong anti-interference capability  
 High precision, low detection limit(0.2mg/L), small amount of instrument drift for a long time  
 Has a key self-check function and self diagnosis function  
 Imported single-channel high integration valve island, simple and easy to maintenance, dismantling and cleaning  
 All-day networking, monitoring meter running state at anytime and anywhere  
 Contain the scan code function, alarm function, quality control and reverse control functions

### Application

Apply to the monitoring of environmental pollution, industrial process water, municipal wastewater treatment.



## MDet-5000X Colorimetric Method Heavy Metal Water Quality Online Analyzer

WDet-5000X is a new on-line automatic analyzer for heavy metal content measuring. The instrument through precise control related chemical reaction. The instrument uses the latest technology such as optical measurement, high temperature and high pressure digestion, color integration, etc, has the feature of accurate measurement, low detection limit, high reliability and good adaptability, etc. It complies with the relevant testing standards issued by the State Environmental Protection Agency, and received a certificate of the relevant state departments of environmental protection. Reagent used by the instrument can be formulated according to the national standard (the required reagent is different according to measurement occasions, measuring components, the specific operating mode needs can be consulted by company technical support).



### Specification

|                                                                                          |                                                                                                                 |
|------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------|
| Method: potassium permanganate oxidation-diphenylcarbohydrazide spectrophotometric (TCr) | Reagent: 1 set reagents is able for about 250 times of measurement (can be customized according to field needs) |
| Diphenylcarbohydrazide spectrophotometric (Cr6+)                                         | Working Temperature: 5°C~45°C                                                                                   |
| Zinc reagent spectrophotometry (Zn)                                                      | Maintenance: <2 hour/month                                                                                      |
| Spectrophotometric method (As)                                                           | Interval: Continuous, 1, 2, 3... 24 hours, can also be triggered by a serial port                               |
| Copper bath spirit colorimetric method (Cu)                                              | Analog Output: 1×4-20mA output (expandable to 2), the maximum load 500Ω                                         |
| Dimethylglyoxime spectrophotometry (Ni)                                                  | Analog Input: 1×4-20mA input (expandable to 2), compatible with 0-5V input                                      |
| Formaloxime Spectrophotometry (TMn)                                                      | Relay Output: 4 (can be flexible configuration)                                                                 |
| O-phenanthroline spectrophotometric (Fe)                                                 | Digital input: 2 (can be flexible configuration)                                                                |
| Range: customizable                                                                      | Interface: RS485/RS232/USB interface (optional)                                                                 |
| Indication Error: ±10%                                                                   | Power: 200W (220±10%VAC 50Hz), regardless of the pump                                                           |
| Repeatability: ≤5%                                                                       |                                                                                                                 |
| Zero Drift: ±5%F.S.                                                                      |                                                                                                                 |
| Span Drift: ±10%F. S.                                                                    |                                                                                                                 |

### Feature

Core components imported, high reliability, Long lifetime, suitable for long time on-line monitoring  
 Unique hybrid technology of bubble agitation ensures thorough mixing of samples and reagents  
 When a reagent leakage, instruments and automatic will alarm and remind maintenance

### Application

Apply to the conditions such as mining, waste water discharge, sewage irrigation, and heavy metal pollution produced in the process of metals production

## WDet-5000Mn Permanganate Index Water Quality Analyzer

Instrument use the acidic potassium permanganate oxidation method to measure the organic matter content of water. The organic matter in the water is dispelled and oxidized by the acidic potassium permanganate at the temperature of 90°C to 95°C. The content of organic matter is obtained by the change of the absorbance of potassium permanganate before and after digestion at 525nm.

### Specification

|                                                                                                                 |                                                                            |
|-----------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------|
| Method: Acidic potassium permanganate oxidation method                                                          | Maintenance: > 1 month                                                     |
| Range: 0~20~50~100mg/L (adjustable)                                                                             | Analog Output: 1×4-20mA output (expandable to 2), the maximum load 500Ω    |
| Indication Error: ±5%                                                                                           | Analog Input: 1×4-20mA input (expandable to 2), compatible with 0-5V input |
| Repeatability: ≤5%                                                                                              | Relay Output: 4 (can be flexible configuration)                            |
| Reagent: 1 set reagents is able for about 250 times of measurement (can be customized according to field needs) | Interface: RS485/RS232/USB interface (optional)                            |
| Interval: Continuous, 1, 2, 3... 24 hours, can also be triggered by a serial port                               | Power: 200W (220±10%VAC 50Hz), regardless of the pump                      |



### Feature

Core components imported, high reliability, long lifetime, suitable for long time on-line monitoring  
 Photoelectric measurement method makes accurate sampling with low injection error  
 Unique hybrid technology of bubble agitation ensures thorough mixing of samples and reagents  
 Automatic leakage alarm and self-diagnostic function enhance safety and efficiency

### Application

Apply to the monitoring of Permanganate Index content in surface water when the chloride ion concentration bellows 300 mg/L and the monitoring of water from drinking water source, surface water such as lakes and rivers, tap water factory and city pipe network.

## WDet-5000CN Cyanide Water Quality Online Analyzer

Under the condition of weak acid, cyanide of water samples and chloramine T generate chloramine cyanide, and then react with isonicotinic acid, after the hydrolysis generate pentene dialdehyde, finally, together with barbituric acid generate purple blue compounds, in a certain concentration range, the chroma is proportional to the concentration of cyanide.

### Specification

|                                                                                                                 |                                                                            |
|-----------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------|
| Method: isonicotinic acid - barbituric acid spectrophotometry                                                   | Analog Output: 1×4-20mA output (expandable to 2), the maximum load 500Ω    |
| Range: 0~1mg/L, higher range can be customized                                                                  | Analog Input: 1×4-20mA input (expandable to 2), compatible with 0-5V input |
| Indication Error: ±10%                                                                                          | Relay Output: 4 (can be flexible configuration)                            |
| Repeatability: ≤5%                                                                                              | Interface: RS485/RS232/USB interface (optional)                            |
| Reagent: 1 set reagents is able for about 250 times of measurement (can be customized according to field needs) | Power: 200W(220±10%VAC 50Hz), regardless of the pump                       |
| Working Temperature: 5°C~45°C                                                                                   |                                                                            |
| Maintenance: >1 month                                                                                           |                                                                            |
| Interval: Continuous, 1, 2, 3... 24 hours, can also be triggered by a serial port                               |                                                                            |



### Feature

Core components imported, high reliability, Long lifetime, suitable for long time on-line monitoring  
 Unique hybrid technology of bubble agitation ensures thorough mixing of samples and reagents  
 When a reagent leakage, instruments and automatic will alarm and remind maintenance  
 Using photoelectric measurement method and special measuring algorithm

### Application

It applies to the cyanide monitoring of surface water, sewage and industrial wastewater

## WDet-7000 Integration Water Quality Online Analyzer

WDet-7000 water quality automatic analyzer is a high level integration of multi-parameter water quality analyzer. It uses modular design, each parameter using independent sample and analysis module, to realize the use of any combination such as COD, ammonia nitrogen, total phosphorus, total nitrogen and a variety of heavy metals. Applied reagent can be configured according to relevant national standards.

### Specification

Method: COD, ammonia nitrogen, total phosphorus, total nitrogen and part of heavy metals. The other parameters can be customized  
 Indication Error: ±10%  
 Repeatability: ≤5%  
 Digestion Time: 3, 5, 20, 30, 40, 60, 80, 100, 120 min optional  
 Reagent: 1 set reagents is able for about 250 times of measurement (can be customized according to field needs)  
 Working Temperature: 5°C~40°C  
 Maintenance: >1 month  
 Interval: Hourly and interval measurement, can also start the measurement via a serial port  
 Interface: 1×4-20mA input/output (expandable to 2), RS485/RS232/USB interface/WIFI/ Bluetooth (optional)  
 Power: 200W(220±10%VAC 50Hz), regardless of the pump



### Feature

Global initiative magnetic conductivity measurement technology, thoroughly solves the problem of chromaticity, suspended solids and bubbles  
 A single HMI module can connect with multiple analysis module, to facilitate the measurement combination of multiple parameters  
 Imported single channel high integration valve terminal technology which is easy to maintain, dismantle and clean  
 When a reagent leaks, instrument will automatically alarm and remind the user for maintenance  
 Exceed standard sample retained function: samples of abnormal data will be retained for manual analysis

### Application

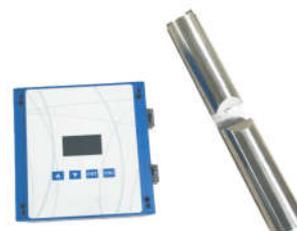
It can be widely used in water pollution monitoring, industrial process water, industrial and municipal wastewater treatment and surface water monitoring, etc.

## WDet-5000UVI Immersion Water Quality Analyzer

WDet-5000UVI is the first full-spectrum (200-800nm) immersion UV analyzer. Apply to measurement COD, BOD, Uv254, nitrate, TOC, DOC, turbidity, TSS, color and other indicators of surface water, groundwater, municipal wastewater.

### Specification

|                                                                                             |                                                                      |
|---------------------------------------------------------------------------------------------|----------------------------------------------------------------------|
| Method: UV/visible differential optical absorption spectroscopy, wavelength range 200-800nm | Enclosure Rating: IP65(secondary instrument)                         |
| Range: 0~50~200mg/L(greater range can be customized)                                        | Auto-cleaning: can be set                                            |
| Linearity: $\pm 2\%$ F.S.                                                                   | Interface: RS232/RS485(Baud rate can be set),<br>2×4-20mA output (A) |
| Zero Drift: $< 1\%$ F.S.                                                                    | RS232, MODBUS protocol (B)                                           |
| Probes Depth: $< 10$ m                                                                      | Probe Size: $\phi 60 \times 380.5$ mm                                |
| Interval: the shortest 60 seconds, the cycle can be set                                     | Probe Weight: 5kg                                                    |
| Optical Path: can be adjusted according to the site conditions                              | Power: 220VAC, 30W(A)<br>12~24VAC(B)                                 |
| Working Temp.: 5°C~45°C                                                                     |                                                                      |



A: with control box



B: without control box

### Feature

Compared with the double wavelength background subtraction technique, full spectrum (200-800nm) measurement technique and chemometric algorithm allow more parameters to be measured, and the influence of composition change is small

Automatic cleaning of gas probe with high-pressure provides higher reliability than the mechanical blade

No reagents, low operating costs, no secondary pollution

Fast response(2s), applicable to real-time requirements of the occasion

Interference-free chlorine ion

### Application

Apply to monitor surface water, groundwater, municipal wastewater

## GCOM-4000-VOCs Water Volatile Organic Compounds Online Analyzer

GCOM-4000-VOCs consist of headspace sampling module and high temperature chromatographic analysis modules(GC-FID). It can monitor volatile organic compounds such as section benzene series(benzene, toluene, xylene, ethyl benzene, isopropyl benzene) in industrial wastewater and the surface water and part of halogenated hydrocarbons. After the pipe pretreatment, water is pumped into the top of the analyzer empty pool, in the condition of constant temperature heating,volatile organic compounds in water samples are transferred to the gas phase space on the surface of the liquid. After inflating and decompression of carrier gas,sample gas is evaporating out and then transferred to high temperature chromatographic analysis module for testing. By headspace sampling device of liquid to gas phase process, direct measure the volatile out clean gas and overcome the effect of impurities such as suspended solids in water samples on analytic flowpath.

### Specification

|                                |                                                       |
|--------------------------------|-------------------------------------------------------|
| Method: GC-FID                 | Communication Protocol: Modbus-RTU/TCP                |
| Range: 0~100mg/L               | Size: 600mm×800mm×1600mm                              |
| Distinguishability: 0.001mg/L  | Enclosure Rating: cabinet IP42, others IP65           |
| Repeatability: $\pm 2\%$       | Power: 220VAC, 500W                                   |
| Accuracy: $\pm 10\%$           | Working Temperature: -20°C~+50°C                      |
| Measurement Period: $\leq 1$ h | Working Humidity: 5% RH~95%RH (non-condensing)        |
| Insulation Resistance: 20MΩ    | Compressed Air: (0.4~0.8)MPa, clean, without oil      |
| Signal Output: RS232/RS485     | Working Carrier Gas: nitrogen, purity $\geq 99.999\%$ |

### Feature

After sample injection of each sample, analyzer automatically blows the chromatographic column to speed up the component sieving and analysis

It uses headspace sampling module to reduce the interference of impurity on water effectively

Gas line is inert processed to avoid the adsorption and residue of samples on the wall

FID detector has a function of automatic judge and automatic ignition after outfire

Software in addition to the built-in a default analysis method, also allows the user to free configure analysis process and methods

Configuration supports multiple detectors which can be used for complex sample analysis at the same time and can improve the ability of analysis

Support TCP/IP network remote controlling

Can be equipped with explosion-proof instrument racks

### Application

Apply to volatile organic compounds monitoring include wastewater from the end of the manufacturing industry such as paint, resin, dye, ink, medicine, and also centralized drinking water and surface water.



## WDet-1000 Multi-parameter Immersion Water Analyzer

Multi-parameter analyzer has advanced sensor technology and Internet technology as the core, integrates water quality monitoring technology, mobile data communication technology, network technology for an organic whole, realize the intelligent monitoring of the COD, ammonia nitrogen, conventional five parameters (PH, dissolved oxygen, conductivity, turbidity, temperature) , and upload data to system platform according to the customized requirement.

### Specification

| Parameters       | Methods                          | Range        | Accuracy |
|------------------|----------------------------------|--------------|----------|
| Temperature      | Platinum resistance              | 0~80℃        | 0.1℃     |
| PH               | Glass electrode                  | 0~14         | 0.1      |
| Dissolved oxygen | Fluorescence                     | 0~20mg/L     | ±3%      |
| Conductivity     | Graphite electrode               | 0.1~20mS/cm  | ±2%      |
| Turbidity        | Infrared scattering              | 0.01~1000NTU | ±2%      |
| Ammonia nitrogen | Ammonium ion selective electrode | 0.2~1000mg/L | ±5%      |
| CODuv            | UV full spectrum                 | 0~200mg/L    | ±10%     |
| TSSuv            | UV full spectrum                 | 0~100NTU     | ±10%     |



### Feature

Integrated analyzer for the measurement of multiple parameters  
 Compact structure and easy to install  
 UV full spectrum technology with high accuracy and strong adaptability  
 No chemical reagents needed, less maintenance and cost saving  
 Intelligent online management platform; support online zeroing and calibration

### Application

Widely used in municipal sewage, sanitary sewage, tap water plant, surface water, drinking water source, aquaculture, industry and other fields.

## WDet-1000E Multi-parameter Water Analysis Probe

It is an independent research and developed multi-parameter water quality monitoring product, integrating to measure the dissolved oxygen, turbidity, temperature, PH, conductivity, ORP, chlorophyll, blue green algae, residual chlorine, flow monitoring.

### Specification

| Parameters        | Methods                  | Range                         | Accuracy |
|-------------------|--------------------------|-------------------------------|----------|
| Temperature       | Platinum resistance      | 0~80℃                         | 0.1℃     |
| PH                | Glass electrode          | 0~14                          | 0.1      |
| Dissolved oxygen  | Fluorescence             | 0~20mg/L                      | ±3%      |
| Conductivity      | Graphite electrode       | 0.1~20mS/cm                   | ±2%      |
| Turbidity         | Infrared scattering      | 0.01~2000NTU                  | ±2%      |
| ORP               | Redox                    | -2000mV~+2000mV               | ±5%      |
| Chlorophyll       | Fluorescence of pigment. | 0~500ug/L                     | ±5%      |
| Blue-green algae  | Fluorescence of pigment  | 100~300000pcs/mL              | ±5%      |
| Residual chlorine | Constant voltage         | 0~20mg/L                      | ±2%      |
| Flow              | Ultrasonic               | 0~(10L/s-10m <sup>3</sup> /s) | ±5%      |



### Feature

The measurement data is fast, all the electrodes can realize high speed data measurement, and a set of data can be measured every 30 to 60 s  
 No chemical reagent consumption, non-chemical method measurement of all probe, no need for regular reagent, no professional procurement configuration reagent

### Application

Widely used in municipal sewage, sanitary sewage, tap water plant, surface water, drinking water source, aquaculture, industry and other fields.

## WDet-9000 Micro Water Quality Automatic Monitoring Station

WDet 9000 is an independent highly integrated automatic monitoring station which is developed according to the water quality monitoring R&D experience and demand for site condition. The system has a high precision, only occupying little space and could measure many parameters. It is comparable to the regular four square water station and eight square water station on the market. According to the working condition, this system is configurable to measure water temperature, PH, DO, conductivity, turbidity, UVCOD, UV254, BOD, TOC and DOC, nitrate nitrogen, ammonia nitrogen, CODcr, total phosphorus, total nitrogen, permanganate index, total iron, manganese, total copper, nickel, zinc, hexavalent chromium, cyanide and other components.



### Specification

| Parameters          | Methods                                            | Range               | Accuracy |
|---------------------|----------------------------------------------------|---------------------|----------|
| Temperature         | Platinum resistance                                | 0~80℃               | 0.1℃     |
| PH                  | Glass electrode                                    | 0~14                | 0.1      |
| Dissolved oxygen    | Fluorescence                                       | 0~20mg/L            | ±3%      |
| Conductivity        | Graphite electrode                                 | 0.1~20mS/cm         | ±2%      |
| Turbidity           | Infrared scattering                                | 0.01~1000NTU        | ±2%      |
| UVCOD               | UV visible spectrophotometry                       | 0~200mg/L           | ±10%     |
| Nitrate nitrogen    | UV visible spectrophotometry                       | 0~5/20/50mg/L       | ±10%     |
| Ammonia nitrogen    | Salicylic acid spectrophotometry                   | 0~2/10/100mg/L      | ±10%     |
| CODcr               | Potassium dichromate spectrophotometry             | 0~500/1000/5000mg/L | ±5%      |
| Total phosphorus    | Ammonium molybdate spectrophotometry               | 0~2/10/50mg/L       | ±5%      |
| Total nitrogen      | Potassium persulfate UV spectrophotometry          | 0~5/25/50mg/L       | ±10%     |
| Permanganate index  | Acid permanganate                                  | 0~20mg/L            | ±5%      |
| Total iron          | Phenanthroline spectrophotometry                   | 0~5/20mg/L          | ±10%     |
| Total manganese     | Formaldehyde oxime spectrophotometry               | 0~2/5mg/L           | ±10%     |
| Total copper        | Bath copper spirit spectrophotometry               | 0~2/10mg/L          | ±10%     |
| Total nickel        | Dimethylglyoxime spectrophotometry                 | 0~4/8/20mg/L        | ±10%     |
| Total zinc          | Zinc reagent spectrophotometry.                    | 0~2mg/L             | ±10%     |
| Hexavalent Chromium | Diphenyl carbamide spectrophotometry               | 0~1/5mg/L           | ±5%      |
| Cyanide             | Iso-nicotinic acid - barbiturate spectrophotometry | 0~1/2/5mg/L         | ±10%     |

### Feature

Realize long term automatic monitoring

The integrated wind light oil complementary power generation system has an unique patented technology for reducing power consumption

System adopts the principle of magnetic conductance measurement , accurately quantification. The integrated digestion module, more complete reaction , high measurement precision

Display terminal with large touch screen, beautiful interface, simple operation

The system intelligence level is high, can realize automatic cleaning, system automatic detection, fault automatic reset and so on

Small volume, high integration, reasonable internal layout, more monitoring indicators, convenient maintenance

Design with lightning protection module to ensure all-weather normal work

Modular design, easy to add the measurement component

### Application

Widely used in municipal sewage, sanitary sewage, tap water plant, surface water, drinking water source, industry and other fields.