# WATER QUALITY ONLINE ANALYSIS INSTRUMENTS



## Water Quality Online Analysis Instruments



CIT-8800 Inductive Conductivity/
Concentration Online Controller



pH/ORP-8500A pH/ORP Meter



CCT-8301A Conductivity/
Resistivity /TDS Online Controller



pH/ORP-5500 pH/ORP Meter
pH/ORP-5520 pH/ORP Meter



FCT-8350 Flow Meter



CCT-5300 series Conductivity/
Resistivity /TDS Online Controller



CCT-3300 series Conductivity/
Resistivity/TDS Online Controller



ROC-2015
Single Stage RO Controller



pH/ORP-3500 pH/ORP Meter
pH/ORP-3520 pH/ORP Meter



Miniature Conductivity Sensor



pH Sensor



Conductivity Sensor



Sanitary grade
conductivity sersor



Free Chlorine Sensor



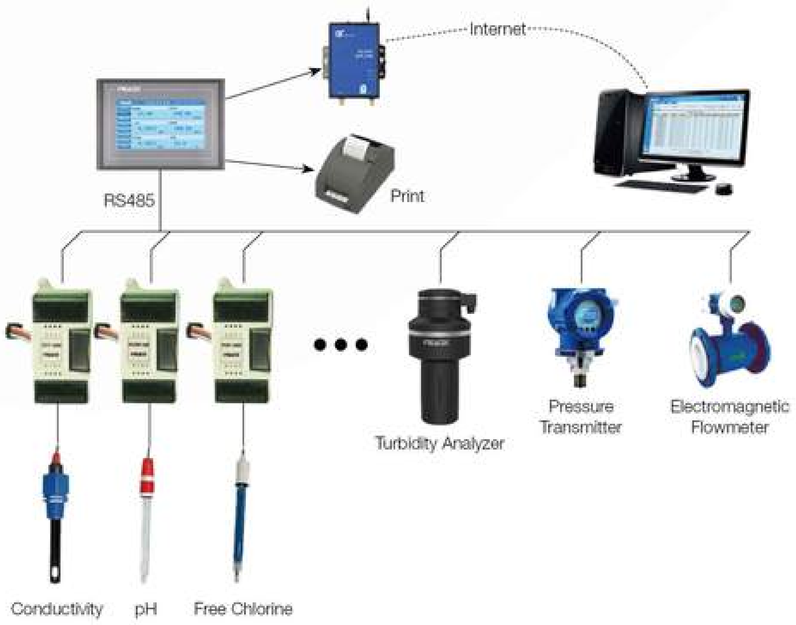
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## MWA-1400 Multi-parameter Online Analysis System Integration

### *Characteristics*

- The sampling water will be lead into the cycling system for multi-parameters measurement, which could avoid cumulative water consumption caused by multi-point monitoring network system and save water
- 7" color touchscreen with 4-12 channels measurement parameters displayed at the same time
- Build-in module instead of meters which makes system clean;stable running, low maintenance
- Water quality parameters and external Physical quantities integration, with data logger function
- Bus data acquisition (with high speed and high fidelity feature)for data transmission
- Data module calibration software makes visible calibration
- Mass data storage space for historical data record and curve playback of measurement parameters, U disk data transmission function
- Master-slave communication port; mast port for receiving and handling of analyzer; slave port for remote communication, can connect GPRS/WIFI/ Zigebe,also connect internet for real time remote monitoring and trouble shooting
- With the function of sensor automatic maintenance ,ensure the long life of the sensor







### *Technical Parameters*

| Model | MWA-1400 Multi-parameter Online Analysis System Integration | | | |
|---|---|---|---|---|
| Configuration | Turbidity/Free Chlorine/pH/Temp | | | |
| Measurement Parameters | Free Chlorine/$CLO_2$ | Turbidity | pH | Temp |
| Measurement range | (0.01~2.00)mg/L | (0~100) NTU | 2.00~12.00 | (0.0~99.9)℃ |
| Resolution | 0.01mg/L | <10NTU, 0.0001NTU | 0.01 | 0.1℃ |
| Accuracy | 90% confidence intervals ≤ ±10%FS | <40NTU, ±2.5%FS | 0.1 pH | ±0.5℃ |
| Communication | RS485 | MODBUS RTU protocol | | |
| Power supply | AC 220V±10%; 50/60Hz | | | |
| Working Environment | Temp: (0~50)℃ ; relative humidity: ≤ 85%RH (none condensation) | | | |
| Storage Environment | Temp: (0~60)℃ ; relative humidity: ≤ 85%RH (none condensation) | | | |
| Cabinet Size | 1500mm×550mm×400mm (H×W×D) | | | |



## $COD_{cr}$-1400 COD Water Quality Online Analyzer

### *Application*

Widely used in tap-water, oceans, rivers, lakes, water, electroplating waste water, printing and dyeing waste water, slaughter and processing waste water such as industrial waste water and high concentration of waste water before water treatment for direct measurement. Also widely used in rivers section, automatic water quality monitoring stations, sewage treatment plants, water plants, sewage monitoring point, the critical point area water section $COD_{cr}$ online monitoring.




### *Characteristics*

- Visual system operation process or measurement curve analyzing
- Timing acquisition,interval acquisition and remote acquisition for selection
- Measurement of Chloridion $Cl^-$-10000 mg/L
- Long time Reagent storage
- Connection port for over limit automatic sampling
- Low system maintenance with innovative data bus modules
- Automatic reset and automatic maintenance
- Remote access and automatic fault diagnosis
- Network or wireless module can be used with digital ports
- Hannonious operation and display interface with 7 inch TFT touch screen
- Data export with USB function ,Data export period can be selected
- Friendly diagram and Tabulation interface make operation easy

### *Technical Parameters*

| Measurement method | potassium dichromate colorimetric method | Measurement mode | Cycle time measurement, external trigger signal measurement |
|---|---|---|---|
| Technical Principle | Sequential injection analysis | Instrument calibration | Auto/Manual |
| Measurement Range | (30~ 1000)mg/L or customized as per request | Rinse period | Interval setting (pre-rinse is included) |
| Accuracy | ±10% | Dispel time | modified (10~20min) |
| Repeatability | <5% | data storage | 3000groups |
| Resolution | 0.1mg/L | Input | Relay |
| Zero Drift | ±5% | Output | (4~20)mA |
| Measurement Drift | ±10% | | |
| Communication | RS232 (transferable to RS485) | | |
| Consumption | Less than 300W | | |
| Power Supply | AC 220V±10%, 50Hz±5% | | |
| Temperature | (5~40)℃ | | |
| Dimension | 500mm×1550mm×420mm(W ×H×D) | | |

Remark: The more details about the $COD_{cr}$-1400 (range: 0-20mgL) COD Water Online Analyzer, please check the website

# $NH_3$-N-1400 Ammonia Nitrogen Online Analyzer



### *Application*

Test sample liquid can be measured without any pretreatment, the sample water can riser directly into the system to measure the ammonia concentration. The maximum measurement range of this equipment is (0 ~300.0) mg / L $NH_3$-N. The method is mainly used for on-line automatic monitoring of ammonia nitrogen concentration such as point source and surface water.

### *Characteristics*

- Range of measurement: (0-150.0) mg/L $NH_3$ -N
- Accuracy: ≤2.0 mg/L: ±0.2 mg/L; >2.0 mg/L: ±10%
- Repeatability: less than ±3%
- Measurement period: the minimum measurement period is 25 minutes
- Sampling period: time interval (1~999min arbitrary and adjustable) and hourly measuring model
- Calibrating period: Automatically manual calibrated at any time or set the cycle of automatic calibration
- Output: 4~20mA current output
- Maintenance period: Usually monthly, about 30 mins every time
- Environmental requirement:adjustable indoor temperature, proposal temperature (+5~28) ℃ humidity ≤90% (no condensation)
- Power Supply: AC(220±10%) V, 50/60HZ
- Dimension: Length 550 ×width 440×height 1520mm
- Other: data is not lost for abnormal alarm and power failure
  Touch screen display and input instructions
  If abnormal reset and power supply after power failure, the instrument will automatically discharge the residual reactants and automatically return to work status

### *Basic Principle*

In the presence of sodium nitroprusside, ammonium and salicylate and hypochlorite ions to produce blue compounds, and then by photoelectric colorimetric method to measure the ammonia content of sample water. The measured values can be read from the display.



# MCC - 2321 Multi-Channel Controller

### *Application*

Widely used for waste water treatment, environmental water quality monitoring,industrial field control,chemical process,easy for data collecting and controlling,transmitting and remote data transmission .




### *Characteristics*

- The display interface can freely configure the display window with 4/6/9/12 parameters
- Physical port configuration for two Modbus RTU communication protocols of the master/slave (downlink/uplink) type
- The mixture of downlink RS485 bus and 4 - 20mA receiving port can accept (1~12) measurement transmitter with arbitrary measurement attributes
- Uplink serial port can connect any PLC, computer, and configure WIFI\Zigbee\3G\GPRS wireless remote module
- A variety of engineering measurement units are stored in the controller to meet the calculation and configuration of engineering quantity of various attribute transmitters
- 4 channels transformer output, can choose any one of the attributes of information (4~20) mA transformer output
- 4 channels control relay can be configured with any parameter channel overlimit alarm control and DI correlation (three way mechanical contact, one way electronic contact)
- Fully sealed, wall-mounted shell, in line with IP65 protection level of on-site protection capability

# MFC-1200/MFC-1380 General Online Single/ Multi-Channels ControUer




### *Application*

Widely used for sewage water treatmentenvironmental water quality monitoring.industrial site control, chemical process and so on.

### *Technical Features*

- Display one parameter(MFC-1300)or 1-4 channels parameter (MCC-1300)
- Master-slave dual serial port, Modbus RTU communication procotol
- Downward RS548 bus and 4 -20 mA receiving port can accept one (MFC-1300) or less than four (MCC-1300) arbitrary measurement transmitter
- Uplink serial port can connect any PLC, computer, and configuration of WIFI, Zigbee, 3 g, GPRS wireless remote module
- Store a variety of measurement unit, can be selected from the screen
- Two channels transmitting output, each channel support 4-20mA output, metering mode and transmitting model for selection
- Three channels control output which could make each parameter over limit alarm control and DI relation (one channel mechanical contact, two channels electronic contact)
- Panel mounted shell with full-sealed, IP65 protection level

## *Main technical features*

| | | |
|---|---|---|
| Conmiunication | Master RS485 interface connect with DCS or server;<br>Slave RS48 interface connect with kinds of digital sensors/transmitter | |
| 4–20 mA receiving | Connect with two channels 4–20mA transmitter | |
| 4–20 mA output | Output two channels 4–20mA signals | |
| DI input (dry contact) | Two channels DI input, Pull on the potential, photo–electric isolating, receiving level, pressure, Temp, leakage signals | |
| Control output | Mechanical contact | SPST* One channel , AC 220V @3A ( MAX ) |
| | Electronce contact | Semiconductor photoelectric switch* two channels, load capacity : 50mA ( max ) AD/DC 30V |
| Power supply | DC24V±4V | |
| Working environment | Temp ( 0 ~ 50 ) ℃ ; relative humidity ⩽ 85%RH ( none condensation ) | |
| Storage environment | Temp ( –10 ~ 60 ) ℃ ; relative humidity ⩽ 85 %RH ( none condensation ) | |
| Protection level | IP65 | |
| Dimension | 144mm × 144mm × 142mm(L × W × H) | |
| Installation Method | Panel mounted | |

## *Order Direction*

| Sensor description | Model | Quantity | Unit |
|---|---|---|---|
| Digital inductive conductivity/ concentration sensor | CID–3041 | 1 | PC |
| Digital conductivity/TDS/Temp sensor | CRD–2000/6000 | 1 | PC |
| Digital pH/ORP sensor | pHD/ORPD–6110 | 1 | PC |
| Digital Optical dissolved oxygen sensor | DOF–6310 | 1 | PC |
| Digital flow sensor | FLP–1600–LD | 1 | PC |
| Digital high range turbidity/TSS sensor | TUR/TSS–6000 | 1 | PC |
| Digital low range turbidity sensor | TUR–6100 | 1 | PC |



# MFC-8800 IoT Instrument

### *Working Principle*

With the rapid development of industrial Internet of Things technology, the existence of data acquisition terminal mode of IOT instrument has become a reality, it supports RS485 output or two-wire system (4-20) mA transmission, supporting 1-4 channels of data acquisition, and internal storage of the vast majority of engineering units. It has many functions such as digital output, PID output, proportional pulse and frequency output.




### *Application*

For complex industrial processes, sewage treatment, water reuse, environmental monitoring, industrial field control, chemical process, thermal detection and discrete control, data transmission control and remote data transmission.

### *Characteristics*

- Board - card module design, easy to select onboard acquisition parameters
- 1-4 channels of arbitrary attribute data acquisition
- 4 input parameters can be arbitrarily selected RS485/4-20mA
- Internal integrated WiFi, download the APP and view the data on the phone and set the function
- RS485 to Lora and RS485 to ZigBee modules are used to construct wireless data transmission of the Internet of Things
- Uplink industrial RS485 interface can connect DTU to cloud data collection, view, monitoring and saving
- Internal storage of multiple units of engineering volume
- Two-way 4-20mA two-wire input
- One of the quantities can be converted to standard 4-20mA output
- The 3-way relay can be configured with any channel overrun alarm or DI associated output
- 1 channel high speed photoelectric switch port, programmable logic/pulse/frequency operation mode.

## *Main technical features*

| | | |
|---|---|---|
| Communication port | The uplink slave channel Modbus RTU protocol RS485 port is connected with DTU and DCS<br>Downlink master channel RS485 port of Modbus RTU protocol is connected with data acquisition terminal | |
| 4–20 mA output | 1 channel two–wire type Maximum loop resistance 400Q | |
| 4~20 mA Input | 2 channel channel two–wire type ( initiative feed) | |
| DI Input | 2 channels Photoelectric isolation logic switch | |
| DO Output | 3 channels relay (only for drive signal) | 1 SPDT AC220V; 3A(MAX) |
| | | 2 SPST AC220V; 3A(MAX) |
| | 1 channel Photoelectric switch | Proportional pulse/frequency Load capacity: 100mA/DC30V |
| Data acquisition | Data acquisition collection, with 3 channels DC24V sensor power supply | |
| Display mode | 3.5" (or 4") colorful LCD touch screen | |
| Power supply | Wide power range : (12–24) V | |
| Consumption | <5W | |



**IOT instrument with different Data Acquisition Terminal**

## CODuv-6000 Data Acquisition Terminal

### *Overview*

The CODUV-6000 data collection terminal is an online detection instrument that uses optical methods to detect COD content in water quality. The instrument is embedded with an intelligent core of measurement and calculation, and directly outputs the COD value through RS485 digital signal. It can also convert RS485 digital signal into RS232, 4-20mA, 4G, GPRS, Zigbee, LORA and other data formats through the data conversion module.



### *Application*

- Directly used as the data acquisition terminal of DCS and PLC system in the industrial field
- Direct access to the cloud communication and big data platform through the DTU of the GPRS system
- Directly use the WiFi module as a nearby wireless data collection terminal
- Can use ZigBee/Lora module to remote wireless collection terminal
- It can realize optical remote data collection through optical transceiver and far-infrared terminal
- Supporting traditional 4-20mA industrial system (cable end RS485/4-20mA) module conversion
- With a variety of 485/WiFi/USB tool converter, you can achieve calibration, address search, baud rate search and configuration by APP

### *Characteristics*

- Using ultraviolet optical method to test water quality COD parameters, without sample pretreatment; Fast detection and analysis, and no secondary pollution
- Support parameter conversion, which can be converted into BOD, TOC, SAC254 and other parameters
- Increasing the reference optical channelso that can effectively eliminate the interference of water turbidity to ensure the accuracy of the test
- Support parameter conversion, which can be converted into BOD, TOC, SAC254 and other parameters
- Sensor type, with a small appearance, convenient installation and convenient carrying
- Multi-optical path options are available, which can be adapted to the needs of different ranges in different occasions
- Real-time detection, with the meaning of online detection, low maintenance frequency
- Easy to maintain, the sensor is equipped with compressed air cleaning function, suitable for complex waters and easy to maintain

### *Main technical features*

| Product Name | CODuv-6000 Data Acquisition Terminal | | | |
|---|---|---|---|---|
| Model | CODuv-6001 | CODuv-6002 | CODuv-6003 | CODuv-6004 |
| Measurement range | 0-1000mg/L | 0-400mg/L | 0-75mg/L | 0-3000mg/L |
| Accuracy (based on KHP) | Less than ±5% of reading or 2mg/L | Less than ±5% of reading or Img/L | Less than ±5% of reading or 0.5mg/L | Less than ±5% of reading or 5mg/L |
| Repeatability | ±5% of reading | | | |
| Working environment | Temperature:(0~45)℃ ;Humidity: ≤ 95%RH(none consideration) | | | |
| Pressure | 0.4Mpa | | | |
| Storage environment | Temperature:(-10~60)℃ ; Humidity: ≤ 95%RH(none consideration) | | | |
| Cable length | Standard 10m(out of factory); support(l~300)m(book) | | | |
| Communication | RS485 communication Modbus-RTUstandard protocol | | | |
| Power supply | DC (9-28)V | | | |
| Power | <5W | | | |
| Weight | 1.5Kg | | | |
| Protection level | IP68 | | | |



## $NH_3$-N-1400-A01 Ammonia Nitrogen Sensor

### *Application*

It is suitable for online monitoring and portable monitoring in the fields of municipal sewage, domestic sewage, agricultural sewage, industrial wastewater, process control, nitrification and aeration tanks, and is convenient for monitoring buoys, monitoring floating rows, monitoring vessels and other integrated applications.



### *Characteristics*

- Combine with temperature, pH and K- compensation
- Sensor can be replaced independently, easy to operate and less maintenance
- Accurate measurement, low detection limit, long-term Small drift
- Fast response time and timely reflection
- PT 1000 temperature compensation, accuracy up to ±0.1 ℃
- Corrosion-resistant housing for long-term underwater operation and with compact structure
- RS485 communication , standard Modbus protocol
- Data analysis software with calibration, recording, analysis and diagnostic functions

### *Technical Parameters*

| Product name | NH3-N-1400-A01 Ammonia Nitrogen Sensor |
|---|---|
| working principle | ion selective electrode method |
| Measuring range | (0.2-1000) mg/L NH4-N |
| Detection limit | 0.2 mg/L |
| Accuracy | 5% or ± 0.2mg/L |
| Communication | RS485, Standard Modbus protocol |
| Dimensions | D60mm, L458mm, Standard 2m ( Can be customized) |
| working environment | (0-60) ℃ , (0-6) bar |
| Operating Voltage | 12V/24V DC |

# DOP-6141 Dissolved Oxygen Data Acquisition Terminal

### *Product overview*

DOP-6141 is an environmental oxygen data acquisition terminal, which adopts high-performance oxygen permeable membrane, and the data responds to the change of dissolved oxygen in water in real time.

The product has a series of patented technologies such as split type, wireless transmission, no on-site APP calibration, no secondary wiring and so on.

As an ecological instrument of the Internet of Things, it is directly integrated into LC, DCS and other systems, and can realize wired, wireless and cloud transmission of wired, wireless, network and optical terminals with the help of more Internet of Things modules.



### *Application*

Widely used in electric power, petrochemical, industrial fields, chemical process, industrial water treatment, environmental monitoring, sewage treatment, aquaculture and other occasions involving online analysis, to meet the technical applications in various fields.

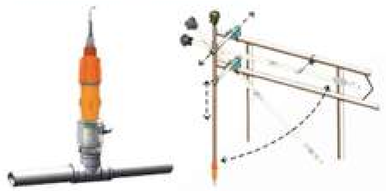
### *Characteristics*

- No on-site APP calibration
- No secondary wiring, communication cable once wiring permanent use
- Wide power supply range, ignoring the influence of circuit resistance voltage drop
- Microencapsulation pass-through technology, The electrical meter and communication are embedded into the sensor connector
- RS485 Digital communication, Modbus RTU standard protocol
- Compatible with 4-20mA system (RS485/4-20mA+ WIFI module, setting the corresponding information of digital quantity and mA accurately by APP)
- Wireless transmission technology, no metal exposed, no corrosion aging, no water vapor leakage effect
- APP calibration, no difference type replacement, easy to use and replace, without professional knowledge
- The product has the traceability of physical examination, history, life span, obstacle and so on

### *Main technical features*

| | |
|---|---|
| Product name | DOP-6141 Dissolved Oxygen Data Acquisition Terminal |
| Measurement range | 0-20mg/L |
| Resolution | 0.0lmg/L |
| Accuracy | ±0.3mg/L |
| Measurement principle | Polarography |
| Size | ф45mm*220mm |
| Installation screw | NPT 3/4 front NPT 3/4 end |
| Temperature compensation | 0-50.0℃ accuracy: ±0.5℃ |
| Pressure | 0.2MPa |
| Protection level | IP68 |
| Power supply | DC (9-28) V, Consumption: ≤ 2W |
| Communication | RS485, MODBUS RTU |
| Medium temperature | 5-50℃ |
| Storage environment | Temp: -10-60℃ , relative humidity: 95% (non condensation) |
| Cable length | Conventional 10m, customizable by appointment |

### *Installation Method*







# DOF-6310 Fluorescence Dissolved Oxygen Data Acquisition Terminal

### *Performance and charateristics*

- Fluorescence quenching principle, no need for internal filling, no oxygen consumption, and easy maintenance
- The service life of the fluorescent membrane cap is more than one year (under ideal conditions)
- There is almost no flow rate requirement, which can meet most usage measurement scenarios
- RS485 digital port directly sends Modbus RTU communication data
- As the front terminal of any industrial computer, controller, PLC and communication protocol module
- 9-28V wide power supply DC power supply, suitable for a wide range of application scenarios
- Data acquisition terminal sends data directly, with long transmission distance, anti-interference and no distortion
- More solutions for problems,and product ecological support
- Good electromagnetic compatibility (EMC) design, calmly deal with the complex electromagnetic
- environment of the industrial site



### *Main technical features*

| | |
|---|---|
| Product Model | DOF-6310 |
| Product Name | Dissolved oxygen data collection terminal |
| Measuring Method | Fluorescence Method |
| Measurement range | 0-20mg/L |
| Accuracy | ±0.3mg/L |
| Resolution | 0.01mg/L |
| Response time | 90s |
| Repeatibility | 5%RS |
| Temperature compensation | 0-60.0℃ Accuracy: ±0.5℃ |
| Air pressure compensation | 300-1100hPa |
| Stand pressure | 0.3Mpa |
| Communication | RS485 MODBUS-RTU standard protocol |
| Power | DC (9-28) V |
| Power comsuption | <2W |
| Operational envrionment | Temperature: (0-50) ℃ |
| Storage Environment | Temperature: (-10-60) ℃ ; Humidity: ≤ 95%RH(None condensation) |
| Installation | Submerged |
| Protection Level | IP68 |
| Weight | 1.5Kg (with 10m cable) |

# CD/RD-220 & CT/RT-120 Series Conductivity/ Resistivity Data Sensing Terminal & Transmitter

### *Main Characteristics*

- Support 100-meter long-distance data collection, support data bus and two-wire transmission mode
- With 25℃ as the reference temperature compensation, it comes with temperature compensation components and algorithms
- The data terminal only needs to set the address and baud rate, without considering other setting operations



## *Main technical features*

| Product name | Data Sensing Terminal | | | | Two-wire (4~20) mA data transmitter | | | |
|---|---|---|---|---|---|---|---|---|
| Model | RD-221 | CD-222 | CD-223 | CD-224 | RT-121 | CT-122 | CT-123 | CT-124 |
| Unit | MΩ cm | μS/cm | μS/cm | μS/cm | MΩ cm | μS/cm | μS/cm | μS/cm |
| Constant (cm-1) | 0.01 | 0.10 | 1.0 | 10.0 | 0.01 | 0.10 | 1.0 | 10.0 |
| Range | (0.05~18.25) | (0.1~2 00) | (0.5~2, 000) | (50~20, 000) | (0.05~18.25) | (0.1~200) | (0.5~2, 000) | (50~20,0 00) |
| Accuracy | ±2.0% FS | ±1.5% FS | ±1.5%FS | ±1.5%FS | ±2.5 %FS | ±2.0% FS | ±2.0 %FS | ±2.0 %FS |
| Liquid contact material | Titanium | 316 L | 316 L | Graphite | Titanium | 316 L | 316 L | Graphite |
| Communication | RS485 (Modbus RTU protocol) | | | | Two-wire (4-20) mA | | | |
| Power | DC (9-28) V | | | | DC (18-26) V | | | |
| temperature range | (0-50) ℃ | | | | | | | |
| Pressure tolerance | 0.5MPa | | | | | | | |
| Connection thread | 1/2"NPT | | | | | | | |



# CID-3041 Digital Inductive Conductivity Sensor

### *Application*

Landfill leachate, sewage treatment Water quality monitoring in petrochemical, power, pharmaceutical, chemical, water treatment, and emiconductor manufacturing industries.







## *Main technical features*

| Product name | | CID-3041 Digital Inductive Conductivity sensor |
|---|---|---|
| Measure range | Conductivity | 500μS/cm~2000mS/cm |
| | Concentration | 1.NaOH: (0-15) % or (25-50) %; |
| | TDS | 2.$HNO_3$: (note the Corrosion resistance of the sensor) (0-25) % or (36-82) % |
| | Temp. | 3.User-defined concentration curves. |
| Resolution | Conductivity | 250.0ppm~1000ppt |
| | Concentration | (0~120) ℃ |
| | TDS | 0.01μS/cm |
| | Temp. | 0.01% |
| Accuracy | Conductivity | (500~1999) μS/cm, ±1.5%(FS) |
| | | (2~19.9) mS/cm ±1.0%(FS) |
| | | (20~199) mS/cm, ±1.0% (FS) |
| | | (200—2000) mS/cm, ±1.0% (FS) |
| | TDS | ±0.5℃ |
| | Temp | Pt 1000 |
| Temp. Compens ation | element | (0~120) ℃ linear condensation |
| | Range | RS485 |
| Communication | | DC 24V±4V |
| Power supply | | ≤ 2W |
| Consunption | | IP68 |
| Protection level | | 0.01 ppm |
| Working environment | | Tenperature: (0~50) ℃ Relative Humidity: ≤ 85%RH(non- condensing ) |
| Storage | | Tenperature: (-20~60)℃ Relative Humidity: ≤ 85%RH(non- condensing) |
| Installation | | Pipeline/Flow device/immersion |

# CRD-6000 Conductivity Internet of Things Terminal

### *Overview*

CRD-6000 series conductivity Internet of things terminal is a conductivity acquisition and test terminal with wide voltage input range.The conductivity data is output digitally through RS485.It can provide undistorted data for industrial control system such as industrial computer, PLC and configuration screen. Digital information will be directly integrated into the Internet plus big data system through various configurations.

### *Application*

- The products are widely used in power, boiler, heat exchanger and other thermal systems as well as heat washing and other industries
- Sanitary conductivity digital terminal (clamp installation) can be used in distilled water, injection, biopharmaceutical, clinical medical equipment, food brewing, beverage and other industries
- Conductivity terminal (wide temperature / high pressure) is suitable for multi effect distilled water system, steam condensate, high temperature distillation, heat exchange and other industries

### *Characteristics*

- It is directly connected with industrial computer, configuration system, industrial DCS system, PLC and other equipment
- Support information transfer of multiple wireless data transmission modules and optical data transmission modules
- Facing the Internet plus era needs, online data collection without intermediate links is realized
- DC power supply, wide input range DC(9-28)V (Taking into account the needs of industries such as industry and shipbuilding)
- The conductivity data after temperature compensation is directly output in RS485 mode
- With heat sink and heat insulation pad, it can be compatible with the operation of distilled water and heat system
- Visual upper computer / APP version setting software, address and baud rate setting
- Set and modify address / baud rate / process parameters in the app interface with the help of converter
- The whole machine is made of titanium or 316L stainless steel, which can5 improve the sanitation and hydration stability
- Selection of industrial electronic materials, maintaining accuracy at medium temperature (-10 - 120) C
- The complete EMC design can meet the safe operation of most electromagnetic



## Main technical features



Clamp type conductivity terminal (Sanitary type)

### (1) Clamp installation (sanitary)

| Product name | Conductivity Internet of things terminal (sanitary/wide temperature/ high pressure) | | |
|---|---|---|---|
| Product model | CRD-6201-HS | CRD-6102-HS | CRD-6103-HS |
| Constant level ($cm^{-1}$) | 0.01 | 0.10 | 1.0 |
| Measuring range | (0.05-18.25) MΩ·cm | (0.05~200) μS/cm | (0.5~2000) μS/cm |
| TDS (ppm) | ----- | (0~ 100) | (0.25~1000) |
| Accuracy | ± 2.0% (FS) | ± 1.5% (FS) | ± 1.5% (FS) |
| Material | Titanium+316L | 316L Stainless steel | 316L Stainless steel |
| Medium temperature | (-10~120) ℃ | | |
| Tolerance pressure (MPa) | 1.0MPa (Max) | | |
| Storage environent | Temperature: (-20~60) ℃ ; Humidity: ⩽ 90%RH (Non-condensing) | | |
| Data communication | RS485 (Modbus RTU) | | |
| Power supply | DC (9~28)V; Power: ⩽ 2W | | |
| Connection mode | Clamp: ϕ50.5mm | | |



Threaded conductivity terminal (industrial process)

### (2) Thread installation(Industrial process type)

| Product name | Conductivity Internet of things terminal (Threaded / wideb temperature / high pressure) | | |
|---|---|---|---|
| Product model | CRD-6201-HN | CRD-6102-HN | CRD-6103-HN |
| Constant level ($cm^{-1}$) | 0.01 | 0.10 | 1.0 |
| Measuring range | (0.05~18.25) MΩ·cm | (0.05~200) μS/cm | (0.5~2000) μS/cm |
| TDS (ppm) | ----- | (0~100) | (0.25~1000) |
| Accuracy | ± 2.0% (FS) | ± 1.5% (FS) | ± 1.5% (FS) |
| Material | Titanium+316L | 316L Stainless steel | 316L Stainless steel |
| Medium temperature | (-10~120) ℃ | | |
| Tolerance pressure (MPa) | 1.0MPa (Max) | | |
| Storage environent | Temperature: (-20~60) ℃ ; Humidity: ⩽ 90%RH (Non-condensing) | | |
| Data communication | RS485 (Modbus RTU) | | |
| Power supply | DC (9~28)V; Power: ⩽ 2W | | |
| Connection mode | Thread: NPT3/4 | | |

# pHD/ORPD-6110 Series Data Acquisition Terminal

### *Application*

Widely used in power, petrochemical, industrial, chemical process, industrial water treatment, environmental monitoring, sewage treatment, aquaculture and other related to pH and ORP online analysis occasions, to meet the technical applications in various fields.

### *Characteristics*

- No on-site APP calibration
- No secondary wiring, communication cable once wiring permanent use
- Wide power supply range, ignoring the influence of circuit resistance voltage drop
- Microencapsulation pass-through technology, The electrical meter and communication are embedded into the sensor connector
- RS485 Digital communication, Modbus RTU standard protocol
- Compatible with 4-20mA system (RS485/4-20mA+ WIFI module, setting the corresponding information of digital quantity and mA accurately by APP)
- Separate detachable structure, only replace the chemical acquisition unit
- Wireless transmission technology, no metal exposed, no corrosion aging, no water vapor leakage effect
- APP calibration, no difference type replacement, easy to use and replace, without professional knowledge
- The product has the traceability of physical examination, history, life span, obstacle and so on



### *Main technical features*

| Model | pHD /ORPD-6110 Series Data Acquisition Terminal | | |
|---|---|---|---|
| Designation | pHD/ORPD Data Acquisition Terminal | | |
| Project | pH | ORP | Enclosed temperature |
| Measurement Range | 2.00~12.00 | (-1999~1999) mV | (0-50) ℃ |
| Resolution | 0.01 | 1mV | 0.1℃ |
| Accuracy | ±0.1 | ±5mV | ±0.5℃ |
| Working Environment | Temperature: ( 0~50) ℃ ; Humidity: ⩽ 95%RH(non condensation) | | |
| Tolerance Pressure | 0.4MPa | | |
| Cable Length | 10m (Original), Support to 200m (Reservation) | | |
| Communicate | RS485 (Modbus-RTU protocol) | | |
| Power Supply | DC (9-28) V | | |
| Consumption | 1.2W | | |
| Weight | 0.6kg | | |
| Material | ABS | | |
| Hole Size | ϕ 45mm*220mm | | |
| Piping Installation | NPT 3/4"Chemical Front-end | | |
| Protection Support | NPT 3/4"Cable End | | |

### *Installation Method*

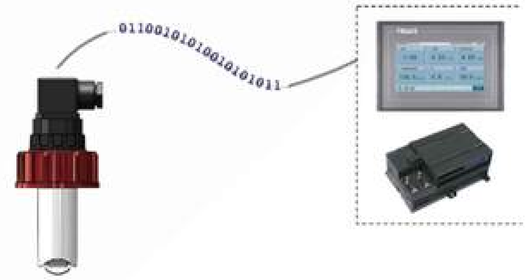




# FLP-1600-LD Digital Flow Sensor

### *Characteristics*

- Measurement/Communication Integrated Paddle Wheel flow sensor
- Design the flow meter function inside the sensor directly
- RS485 digital physical port(Modbus RTU protocol)
- Directly output the instantaneous and accumulated flow data, without any need for analog-digital conversion
- Setting K factor,Address and the baud rate by PC software
- Pre-measuring unit,jiigh integrated design and high anti-interference ability
- Prc-mcasuring unit,high integrated design and high anti-interference ability
- Can connect with computer,configuration system,PLC,wireless modules
- Meet the demand of system completing in Internet Age




### *Technical Features*

| Sensor model | | FLP-1600-LD |
|---|---|---|
| Measure range | Flow rate | (0.5~5) m/s |
| | instantaneous flow | (0~2000) $m^3/h$ |
| | accumulated flow | (0~99999999) $m^3$ |
| Accuracy | | 0.001 $m^3/h$ |
| Accuracy level | | 2.0 level |
| Repeatability | | ±0.5% |
| Sensor output | | RS485 (Standard Modbus RTU protocol) |
| Power supply | | DC24V ±4 V Consumption: <1.0W |
| Cable length | | Standard 10m, optional: (1-1000) m |
| Storage environment | | Temp.: (-20~60) ℃ ;Humidity: ⩽ 90%RH (Non-condensing ) |
| Protect level | | IP 65 |
| Dimension size | | The out circle 57mm, length :130mm |
| Main body material | | Industrial plastic |
| Flow rate range | | (0.5~5)m/s |
| Max pressure | | ⩽ 0.6MPa |
| Installation mode | | Vertical mounting, tangential measurement |

## TUR-6200 Turbidity Data Acquisition Terminal

### *Application*



- Directly as data acquisition terminal of the industrial site DCS and PLC system
- Entering cloud communication and Big data platform through DTU of GPRS
- Wifi module as nearby wireless data acquisition terminal
- Remote wireless data acquisition terminal by Zigbee / Lora
- Optical remote data acquisition can be realized y optical terminal and far infrared terminal
- Supporting traditional 4-20mA industrial system (cable end RS485/4-20mA) module conversion
- With a variety of 485/WiFi/USB tool converter, you can achieve calibration, address search, baud rate search and configuration by APP

### *Characteristics*

- RS485 communication interface with Modbus RTU Procotol
- workable with any IPC, digital interface, PLC and wireless data module system
- With electronic zero and standard liquid calibration function
- With such functions like optical maintenance scraping device, circular timing, appointment timing cleaning
- Power supply DC9-28V, non - polarity connection, automatic default wiring anti-stalling function
- Direct output digital signal, no transmission distortion, transmission distance, strong anti-interference ability
- Good electromagnetic compatibility (EMC) design

### *Main technical features*

| Model | TUR-6204 | TUR-6214 |
|---|---|---|
| Picture |  |  |
| Measurement Range | (1-4000) NTU | (0.1-4000) NTU |
| Measurement Parameter | Turbidity | |
| Light source | 850nm (infrared light) | |
| Solution | <10NTU, 0.001NTU | |
| | <100NTU, 0.01NTU | |
| | <1000NTU, 0.1NTU | |
| | <4000NTU, 1NTU | |
| Accuracy | (0-100) NTU: less than reading 5% or 0.5NTU | |
| | (100-1000) NTU: ±2.5%FS | |
| | (1000-4000) NTU±2.5%FS | |
| Repeatability | <3% | |
| Water sample Flow | <3m/s | |
| Maintenance | Auto wiper with cycle setting function | |
| Working Environment | Temp: (0-50) ℃ ; Humidity: ≤ 95%RH (none compensation) | |
| Storage environment | Temp: (-10~60) ℃ ; Humidity: ≤ 95%RH(None compensation) | |
| Cable length | Standard 10m (standard); can be customized 1~1000m (appointment) | |
| Communication protocol | RS485 communication (standard Modbus-RTU protocol) | |
| Power supply | DC (9-28) V | |
| Consumption | <2W | |



## TSS-6200 Total Suspended Solid Data Acquisition Terminal

### *Application*



- Directly as data acquisition terminal of the industrial site DCS and PLC system
- Entering cloud communication and Big data platform through DTU of GPRS
- Wifi module as nearby wireless data acquisition terminal
- Remote wireless data acquisition terminal by Zigbee / Lora
- Optical remote data acquisition can be realized y optical terminal and far infrared terminal
- Supporting traditional 4-20mA industrial system (cable end RS485/4-20mA) module conversion
- With a variety of 485/WiFi/USB tool converter, you can achieve calibration, address search, baud rate search and configuration by APP

### *Characteristics*

- RS485 communication interface with Modbus RTU Procotol
- workable with any IPC, digital interface, PLC and wireless data module system
- With electronic zero and standard liquid calibration function
- With such functions like optical maintenance scraping device, circular timing, appointment timing cleaning
- Power supply DC9-28V, non - polarity connection, automatic default wiring anti-stalling function
- Direct output digital signal, no transmission distortion, transmission distance, strong anti-interference ability
- Good electromagnetic compatibility (EMC) design

### *Main technical features*

| Model | TSS-6201 | TSS-6211 | TSS-6202 | TSS-6212 |
|---|---|---|---|---|
| Picture | Engineer plastic | 316L | Engineer plastic | 316L |
| Measurement Range | (0.1-0.5) g/L | (0.01-0.5) g/L | (1-50) g/L | (0.1-50) g/L |
| Measurement Parameter | Suspended solid | | | |
| Light source | 850nm (infrared ) | | | |
| Resolution | 0.1mg/L | | | |
| Accuracy | less than reading 5% or O.lg/L | | | |
| Measurement Range | < 3% | | | |
| Water sample Flow | <3m/s | | | |
| Maintenance | Auto wiper with cycle setting function | | | |
| Working Environment | Temp: (0~50) ℃ ; Humidity: ≤ 95%RH(none compensation) | | | |
| Pressure | 0.4 MPa | | | |
| Storage environment | Temp: (-10~60) ℃ ; Humidity: ≤ 95%RH(None compensation) | | | |
| Cable length | Standard 10m (standard); can be customized l~1000m (appointment) | | | |
| Communication protocol | RS485 communication (standard Modbus-RTU protocol) | | | |
| Power supply | DC (9-28) V | | | |
| Consumption | <2W | | | |
| Weight | 1.5 kg | | 3 kg | |
| Installation method | Horizontal/Vertical installation | | | |

## TUR-6314 High Turbidity Data Acquisition Terminal

### *Working principle*

The TUR-6314 high turbidity data acquisition terminal adopts an infrared LED light source with a central wavelength of 850nm. The detection beam will scatter in a specific direction when it encounters particulate matter in the sample. The backscattered light signal is detected in the direction of the incident light and then the electron unit is processed to calculate the turbidity value of the sample.



### *Application*

- Food, beverage, wine and other industrial first grade water treatment
- Liquid turbidity in pipeline in industrial process
- ndustrial process water quality, circulating cooling water, swimming pool water, reclaimed water, etc

### *Characteristics*

- High brightness LED light source, less divergence Angle, longer life and more stable
- DC 9-28V wide power supply range
- Small diameter, easy to be installed in pipelines and combined sensors
- With its own temperature measurement, temperature compensation can be carried out, which can adapt to more complex media environment
- RS485 output, in line with the standard Modbus-RTU protocol, can also increase the conversion module conversion to other forms

### *Main technical features*

| | |
|---|---|
| Product name | High turbidity data acquisition terminal |
| Model | TUR-6314 |
| Measuring range | 0-4000NTU |
| Resolution | <10NTU, 0.001NTU<br><100NTU, 0.01NTU<br><1000NTU, 0.1NTU<br><4000NTU, 1NTU |
| Accuracy | (0.001-100) NTU: ⩽ ±5%<br>(100-1000) NTU: ±2.5%FS<br>(1000-4000) NTU: ±2.5%FS |
| Resolution | 3% |
| Average signal time | 0, 6, 30, 60 and 90S; It can be selected by the user |
| Ambient temperature | 5~45.0℃ |
| Communication interface | RS485 MODBUS-RTUS tandard protocol |
| Power supply | DC 9~28V |
| Power consumption | <5W |
| Instrument size | (φ16*225) mm |
| Total weight | 1.5Kg |
| Protection level | IP67 |



## TUR-6101/6102 Laser Turbidity Data Acquisition Terminal

### *Application*

TUR-6101 /6102 Laser Turbidity Data Acquistion Terminal,It can be used for on-line monitoring of water quality in different water bodies such as waterworks and membrane filtrate,The sensor internally completes all measurement calculation compensation.Directly output RS485 digital signal package,Undistorted data transmission to computers, servers and other host systems through various data links.It can also go directly to the Internet system via wireless network (4G, GPRS, 433MHz, etc.).

Product integration design, accurate and reliable measurement, easy maintenance and easy operation.




### *Characteristics*

- The xenon source uses a laser source with a lower detection limit for tap water and membrane water.
- A unique light source compensation design is used to ensure the stability of the light source.
- Compared to incandescent bulb turbidity sensors, light sources have a longer life and low maintenance costs.
- A unique surround bubble removal device ensures the removal of air bubbles from the measurement.
- The unique trapping design on the bottom of the , ensures a small background light with minimal interference to the measurement.
- RS485 output, in line with the standard Modbus-RTU protocol. It can directly form an acquisition system with any communication device that conforms to Modbus-RTU format, such as industrial computer and PLC.
- Easy to install, it can be used alone or integrated into a multi-parameter water quality analysis system.
- The external leads are equipped with Hossmann connectors for easy removal and maintenance.

### *Main technical features*

| | | | |
|---|---|---|---|
| Product name | | TUR-6101 | TUR-6102 |
| Measure range | | 0-5NTU | 0-100NTU |
| Resolution | | <10NTU:0.0001NTU | < 10NTU: 0.0001NTU<br>⩾ 10NTU: 0.001NTU |
| Accuracy | | ±3% of the reading or 0.05NTU (Accuracy take the large value) | 0-5NTU:±3% of the reading or 0.05NTU (Accuracy take the large value) |
| Repeatability | | 3% of the reading | |
| Signal average time | | 0, 6, 30, 60 and 90 seconds; for user selection | |
| working environment | Temp | (5-50.0)℃ | |
| | Humidity | ⩽ 85% RH | |
| Electromagnetic Compatibility | Electrostatic discharge | IEC61000-4-2 LEVEL2 Judge B | |
| | Electrical fast transient burst | IEC61000-4-4 LEVEL2 Judge B | |
| | surge | IEC61000-4-5 LEVEL2 | |
| Sample water flow rate | | (250-750)mL/min | |
| Sample water temperature | | (0-50.0)℃ | |
| communication | | RS485 communication ( integrated with the sensor part) MODBUS-RTU standard protocol | |
| Power supply | | DC (10-28)V | |
| Power consumption | | <10W | |
| Protection level | | IP65 | |

## MPS-1400 Digital Multi-parameter Integration Sensor




### *Characteristics*

- The xenon source uses a laser source with a lower detection limit for tap water and membrane water.
- It has RS-485 output, in line with the Modbus protocol.It Can be directly connected to industrial computer, PLC and any other i.
- Communication equipments in accordance with Modbus RTU format.
- Address and baud rate canbe set freely.
- pH,ORP and DO sensors are equipped with quick transfer connector fbr easy replace.
- Turbidity sensor is equipped with auto clean device and manual maintenance is no needed.
- Completely sealed and st.st. body in IP68 protection level.
- Easy installation and it can be placed into the water, the mobile and rapid response can be achieved.

### *Main technical features*

| Parameter | Measurement range | resolution | | accuracy |
|---|---|---|---|---|
| Turbidity | 0.001–4000NTU | range | resolution | (0–100)NTU less than the reading data 5%<br>(100–1000)NTU±2.5%FS<br>(1000–4000)NTU±2.5%FS |
| | | 0.001–10NTU | 0.001NTU | |
| | | 10–10NTU | 0.01NTU | |
| | | 100–1000NTU | 0.1NTU | |
| | | 1000–4000NTU | 1NTU | |
| Suspended solid | 0–50 g/L | range | resolution | less than the reading data 5%(depend on Homogeneity of the city active sludge) |
| | | 0–1.0g | 0.0001g | |
| | | 1.0g–10.0g | 0.001g | |
| | | 10.0g–50.0g | 0.01g | |
| pH | 2.00–12.00 | 0.01 | | ±0.1 |
| ORP | (–2000—2000) mV | lmV | | ±5mV |
| DO | (0–20) mg/L (ppm) | 0.01 μg/L (ppm) | | 0.3mg/L (ppm) |
| conductivity | (0–2000)μS/cm (0–20)mS/cm | 0.1μS/cm | | 1.5% (FS) |
| Temperature | (0.0–99.9) ℃ | 0.1℃ | | ±0.5℃ |
| Depth | 0–40m | 0.1m | | ±1% |
| Communication port | RS485, MODBUS RTU | | | |
| Power supply | DC 9–28V | | | |
| Working environment | Temp: (0–50) ℃ ; Humidity: ⩽ 85% RH (non–condensing) | | | |
| Storage enviomment | Temp: (0–60) ℃ ; Humidity: ⩽ 85%RH (non–condensing) | | | |
| size | 102mm×465mm (DxL) | | | |
| installation | Immersion | | | |
| Pressure | 0.4MPa | | | |



## HDA-7000 series Online Hardness Analyzer




### *Characteristics*

- Water sample management, titration injection, automatic mixing, photoelectric detection, automatic cleaning reagent management integration.
- Quantitative accuracy, less reagent dosage, simple maintenance, short measurement.
- Reagent remaining inventory query and three-level (yellow, orange, red) alarm.
- Electrical environment, the analysis environment is separated from dry and wet, there is no worry about electrical corrosion.
- Card frame type module board, pH board, PID & proportional pulse board, communication board and more modules are optional.
- Support RS-232, RS-485 communication ports, (4-20) mA analog communication output.
- Complete user authority management system to avoid errors in unnecessary parameter project modification.
- It can provide general users with big data platform hosting and open all kinds of analysis and query APP applications to users.

### *Main technical features*

| Measuring Method | | Titration colorimetric method | | | |
|---|---|---|---|---|---|
| Measurement cycle | | (8–20) minutes depends on water sample concentration | | | |
| Sample water requirements | | Clear, colorless, no solid particles, no bubbles | | | |
| Sample water flow | | (200–400) mL/min | | | |
| inlet water pressure | | (0.1–0.3) bar | | | |
| Inlet water temperature range | | (0–40) ℃ | | | |
| Unit display | | °dH、°fh、ppm、mmol/L | | | |
| Model | | HDA–7101 | HDA–7102 | HDA–7103 | HDA–7104 |
| Measure ment range | °dH | 0.05–0.50 | 0.25–2.5 | 1.0–10.0 | 2.5–25.0 |
| | 0fh | 0.09–0.89 | 0.45–4.48 | 1.79–17.9 | 4.48–44.8 |
| | ppm CaCO3 | 0.89–8.93 | 4.48–44.8 | 17.9–179 | 44.8–448 |
| | mmol/L | 0.01–0.09 | 0.04–0.45 | 0.18–1.79 | 0.45–4.48 |
| Indication Error | | ±10% of display value or±0.3ppm, (take the large value) | ±10% of display value or ±0.3ppm, (take the large value) | ±10% of display value or ±5ppm, (take the large value) | ±10% of display value or±15ppm, (take the large value) |
| Repeatability | | ±5% | | | |
| Stability | | ±10% | | | |
| Power connection | | The 3–core power cord with plug is connected to the mains socket with ground wire | | | |
| Digital Output | | RS232/RS485/ (4~20) mA | | | |
| Dimension | | H*W*D: (800*400*200) mm | | | |
| Power supply | | AC (100–240)V; 50/60Hz | | | |

## CLA-7000 Series Free Chlorine (DPD ) online automatic analyzer

### *Characteristics*

- Using the national standard method DPD photometric method test principle, and the same regulations as the national standard.
- Accurate quantification, less reagent consumption, easy maintenance, and short measurement cycle.
- Reagent remaining inventory query and three-level (yellow, orange, red) alarm.
- Can accept 2 channels of water samples, and select PID & proportional pulse board to realize continuous closed-loop adjustment of medical wastewater and corporate wastewater discharge.
- Optional pH measurement board to obtain the current pH and temperature of the water sample simultaneously.
- Electrical environment, the analysis environment is separated from dry and wet, and there is no worry about electrical corrosion.
- Frame module board, pH board, PID& proportional pulse board, communication board and more modules are optional.
- Support RS-232, RS-485 communication ports, (4-20) mA analog communication output.
- Perfect user authority management system to avoid errors in unnecessary parameter project modification.
- It can provide general users with big data platform hosting and open all kinds of analysis and query APP applications to users.




### *Main technical features*

| | | | | |
|---|---|---|---|---|
| Measurement range | N,N-Diethyl-1,4-phenylenediamine (DPD) spectrophotometry | | | |
| Model | CLA-7112 | CLA-7212 | CLA-7113 | CLA-7113 |
| Inlet channel | Single channel | Double channel | Single channel | Double channel |
| Measurement range | Free chlorine: (0.0~2.0)mg/L,Calculated as C12 | | Free chlorine: (0.5~ 10.0)mg/L .Calculated as C12 | |
| | pH: (0-14); Temperature: (0-100) ℃ | | | |
| Accuracy | Free chlorine: ±10% or ±0.1mg/L (Accuracy take the large value). Calculated as C12 | | Free chlorine: ±10% or±0.25mg/L (Accuracy take the large value). Calculated as C12 | |
| | pH: ±0.1pH; Temperature: ±0.5℃ | | | |
| Measurement Period | ⩽ 2.5min | | | |
| Sampling interval | The interval (1~999) min can be set arbitrarily | | | |
| Maintenance cycle | Recommended once a month (see maintenance chapter) | | | |
| Environmental requirements | A ventilated and dry room without strong vibration; Recommended room temperature: (15~28) ℃ ; Relative humidity: ⩽ 85% (No condensation) | | | |
| Water sample flow | (200-400) mL/min | | | |
| Inlet pressure | (0.1-0.3) bar | | | |
| Inlet water temperature range | (0-40) ℃ | | | |
| Power supply | AC (100-240) V; 50/60Hz | | | |
| Power | 120W | | | |
| Power connection | The 3-core power cord with plug is connected to the mains socket with ground wire | | | |
| Data output | RS232/RS485/ (4~20) mA | | | |
| Size | H*W*D: (800*400*200) mm | | | |



## POP-8300 Free Chlorine Online Analyzer

### *Characteristics*

- Wall mounted, integrated (HCLO/C1$O_2$) free chlorine online analyzer.
- The 7-inch touch display, more convenient operation and more powerful system function.
- With the function of historical data retrieve and dynamic display of parametric curve.
- With the function of flow rate measurement display and no water alarm.
- Switch the screen style in the main interface according to preference, the function of data dynamic display.
- Wide range support for global electric standard power supply, reserved power supply, communication waterproof interface.
- Constant flow rate is patented, and not subject to the pressure change from pipeline.
- Solidify the flow through sensor sensitive areas and the measurement is more stable.
- Anti-siphon design, the sensor is automatically maintained after the system is down.
- Isolated,two-way (4-20) mA current loop output, instrument/transmitter dual-mode.
- Two relays of upper and lower limits set, one of photoelectric programmable switch/pulse.
- Protective sealed case, pre-set installation backplane, convenient onsite installation.
- (HC1O) Free chlorine differentially shows free residual chlorine, total residual chlorine, more convenient to guide the customer for dosage control.




### *Main technical specifications*

| System Model | | POP-8300 free chlorine online analyzer |
|---|---|---|
| Measurement range | Free chlorine | (0.00-2.00) mg/L (ppm) (0.00-20.00) mg/L (ppm) |
| | PH | 2.00-12.00 |
| | Tenperature | (0.0-99.9) ℃ |
| Resolution | Free chlorine | 0.01mg/L (ppm) |
| | PH | 0.01 |
| | Tenperature | 0.1℃ |
| Accuracy | Free chlorine | Indication error 10% |
| | PH | 0.1 pH |
| | Tenperature | ±0.5℃ |
| Communication interface | RS485 | MODBUS RTU communication protocol |
| (4-20) mA output | Number of channels | Double channel |
| | Technical feature | Isolated, reversible, conpletely adjustable, instrument/transmitter dual mode |
| | Channel configuration | Programmable point to Free chlorine, chlorine dioxide, Temperature, pH |
| | Loop resistance | 400Ω(Max), DC 24V |
| | Transmission accuracy | ±0.1mA |
| Control output | Number of channels | Three channels |
| | Contact mode | The first for photoelectric switch, the second and third for relay |
| | Load capacity | Load current 50mA (Max) , AC/DC 30V |
| | Control point | Programmable function (Free chlorine, chlorine dioxide, Tenperature, pH, Timing ) |
| Power supply | Connected to electric supply AC80-260V;50/60Hz, conpatible with all international market power standards( 110V;220V;260V;50/60Hz) | |
| Cabinet weight | ⩽ 10kg | |
| Cabinet dimension | 570*mm*380mm* 130mm (H×W×D) | |

# POZ-8300 Ozone Online Analyzer

### *Characteristics*

- Wall mounted, integrated online ozone (O3) analyzer.
- The 7-inch touch display, more convenient operation and more powerful system function.
- With the function of historical data retrieve and dynamic display of parametric curve.
- With the function of flow rate measurement display and no water alarm.
- Switch the screen style in the main interface according to preference, the function of data dynamic display.
- Constant flow rate is patented, and not subject to the pressure change from pipeline.
- Solidify the flow through sensor sensitive areas and the measurement is more stable.
- Anti-siphon design, the sensor is automatically maintained after the system is down.
- Protective sealed case, pre-set installation backplane, convenient onsite installation.




## *Main technical features*

| System Model | | POZ-8300 Online ozone analyzer |
|---|---|---|
| Measurement configuration | | ozone (03) /pH/temperature |
| Measurement | ozone | (0.00-2.00) mg/L (ppm); (0.00-20.00) mg/L (ppm) |
| | pH | 2.00-12.00 |
| | temperature | (0.0-99.9) ℃ |
| Accuracy | ozone | 10%FS |
| | pH | 0.1pH |
| | temperature | ±0.5 ℃ |
| Communicati on interface | RS485 | MODBUS RTU communication protocol |
| (4-20)mA output | Number of channels | Double channels |
| | Technical feature | Isolated,reversible,completely adjustable,instrument/transmitter dual mode |
| | Channel configuration | Programmable point to ozone,Temperature,pH |
| | Transmission | ±0.1mA |
| | Loop resistance | 400Q(Max), DC 24V |
| Control output | Number of channels | Double channels |
| | Contact mode | The first and second for photoelectric switch |
| | Load capacity | Load current 50mA (Max) , AC/DC 30V |
| | Control point | Programmable function(Ozone,Temperature,pH,Timing) |
| Power supply | | Connected to electric supply AC80-260V ;50/60Hz,compatible with all international market power standards( I 10V ;220V;260V;50/60Hz). |
| Installation | | Wall mounted ( with the preset back cover ) |
| Cabinet dimension | | 570*mm*380mm*130mm (HxWxD) gross weight: ≤ l0kg |



# pH/ORP-8500A pH/ORP Online Meter

### *Application*

Widely used for online pH/ORP measurement in chemical process, oil refining, metallurgy, pharmacy,chemical synthesis industrial/sewage water treatment, environment monitoring, agricultural technology, biological fermentation, industrial coating and so on.



### *Characteristics*

- 3.5" 320×240 TFT color screen, Multi-parameter display.
- It has pointers, numbers and colors with space-time concept and can display forms.
- Be compatible for six kinds of buffer solution which suitable for international standard.
- Touch key, Chinese/English to select, guided operation.
- RS485, Modbus RTU protocol.
- Double channels/Isolated(4-20)mA, instrument/transmitter mode for selection.
- Three channels photoelectric switch control, arbitary combination for PH/ORP/temperature/timing.
- switch control, frequency pulse, frequency pulse fbr option, fit for more.
- EMC design with better ability on anti-interference.
- Calendar function which can set timing and reserved timing.
- With the CE Certification.

## *Main technical features*

| Measurement Parameter | pH | ORP | Temperature |
|---|---|---|---|
| | Range: 0.00-14.00 | Range: (-1999~+1999)mV | Range: (0.0-100.0)℃ |
| | Resolution: 0.01 | Resolution: lmV | Resolution: 0.1℃ |
| | Accuracy: ±0.1 | Accuracy: ±5mV(Indicator) | Accuracy: ±0.5℃ |
| Medium | (0-80)℃ | | |
| Temperature components | NTC10K Temperature compensation | | |
| Analog Output | Double channels isolated、transportable(4-20)mA, instruments/ transmitter mode | | |
| Control Output | Triple channels semiconductor photoelectric switch, load current: AC/DC 30V, 50mA(max) | | |
| Communication port | RS485, Modbus RTU protocol | | |
| Powder supply | DC 24V | | |
| Consumption | <5.5W | | |
| Working Environment | Temperature (0~80)℃ ; Relative Humidity ≤ 85%RH(none condensation) | | |
| Storage Environment | Temperature (-20~60)℃ ; Relative Humidity ≤ 85%RH(none condensation) | | |
| Protection Level | IP65 (with rear cover) | | |
| Dimension | 96mm×96mm×94mm (HxWxD) | | |
| Hole Size | 91mm×91mm (HxW) | | |
| Installation | Panel Mounted, Fast installation | | |












# pH/ORP-5500 pH/ORP Onlime Meter

### *Application*

Widely used in scientific experiments and flow detection of various pH solution, It is a panel seal type casing, cost-effective pH & ORP line analytical instruments.

### *Characteristics*

- Be compatible fbr six kinds of Buffer solution, international standard.
- Sealed、cost-effective pH/ORP online pH/ORP controller.
- Outlay temperature sensor design, Universal pH electrode.
- White back-light, overhead multi symbols, simple to set up, easy to use.
- Isolated (4–20)mA output, dual mode Instrument/Transmitter.
- Double relay control (one for high limit, one for the low limit) and the time-delay control.
- Two composite electrode, do not need to replace the cable.
- Isolated measurement/Transmitter /Controller; no mutual influence.
- Optimal electromagnetic compatibility design, good anti-jamming performance.
- With the CE certification.



## *Main technical features*

| | pH | ORP | Temp. |
|---|---|---|---|
| Measurement Range | 0.00–14.00 | (–2000–+2000)mV | (0.0~99.9)℃ (Temp.Compensation: NTC10K) |
| Resolution | 0.01 | lmV | 0.1℃ |
| Accuracy | ±0.1 | ±5mV (electronic unit) | ±0.5℃ |
| Buffer solution | pH value 9.18; 6.86; 4.01; 10.00; 7.00; 4.00 | | |
| Temp.Compensation | (0~50)℃ (with 25℃ as standard) manual/automatic temp, compensation for selection | | |
| Analog Output | Isolated (4–20)mA, Instrument/Transmitter fbr selection | | |
| Powder supply | pH/ORP–5500 | pH/ORP–5510 | pH/ORP–5520 |
| | DC 24V | AC 110V | AC 220V |
| Control Output | Double relay output (ON/OFF); AC 240V/3A | | |
| power consumption | <3W | | |
| Working Environment | Working temp.(0~50)℃ ; Relative humidity ≤ 85%RH (none condensation) | | |
| Storage Environment | Temp. (–20–60)℃ ; Relative humidity ≤ 85%RH (none condensation) | | |
| Dimension | 96mm×96mm× 105mm (H×W×D) | | |
| Hole Size | 91mm×91mm (H×W) | | |
| Protection level | IP65 (with back cover) | | |
| Installation | Panel installation, Fast installation | | |










# pH/ORP-3500 pH/ORP Online Meter

### *Application*

Widely used in scientific experiments and flow detection of various pH solution, It is a small, low-cost and high cost-effective on-line analysis instruments.

### *Characteristics*

- One kind of popular and cost-effective online pH/ORP controller.
- Be compatible for six kinds of Buffer solution (10.00, 9.18, 7.00, 6.86, 4.00, 4.01).
- Outlay temperature sensor design, Universal pH electrode.
- White back-light, overhead multi symbols, simple to set up, easy to use.
- Isolated (4-20)mA output, dual mode Instrument/Transmitter.
- Double relay control (one for high limit ,one for the low limit) and the time-delay control.
- Optimal electromagnetic compatibility design, good antijamming performance.
- Multi power supply, DC/AC power input, no polarity connection.
- Compact Quick installation with the Short cabinet.
- With the CE certification.

## *Main technical features*

| | pH | ORP | Temp. |
|---|---|---|---|
| Measurement Range | 0.00–14.00 | (–2000–+2000)mV | (0.0~99.9)℃ (Temp.Compensation: NTC10K) |
| Resolution | 0.01 | lmV | 0.1℃ |
| Accuracy | ±0.1 | ±5mV (electronic unit) | ±0.5℃ |
| Buffer Solution | 9.18; 6.86; 4.01; 10.00; 7.00; 4.00 | | |
| Medium Temp | (0–50)℃ (with 25 ℃ as standard) manual/automatic temp.compensation for selection | | |
| Analog Output | Isolated one Channel (4–20)mA, Instrument/Transmitter for selection | | |
| Control Output | Double relay output (single contact ON/OFF) | | |
| Powder supply | pH/ORP–3500 | pH/ORP–3510 | pH/ORP–3520 |
| | DC 24V | AC 110V | AC 220V |
| power consumption | <3W | | |
| Working Environment | Working temp. (0–50)℃ ; Relative humidity ≤ 85%RH (none condensation) | | |
| Storage Environment | Temp. (–20–60)℃ ; Relative humidity ≤ 85%RH (none condensation) | | |
| Dimension | 48mm×96mm×80mm (H×W×D) | | |
| Hole Size | 44mm×92mm (H×W) | | |
| Installation | Panel mounted, fast installation | | |








# CIT-8800 Inductive Conductivity / Concentration Online Controller

### *Application*

- Conductivity、TDS、Concentration Online Controller of Strong electrolyte aqueous solution
- Acid and alkali regeneration process on-line concentration analysis of anionic, cationic exchange resin
- Conductivity of low viscosity, multi-phase liquid online analysis
- Chemical process, electroplating, coating, oil, metal processing and other industrial conductivity on-line analysis
- CIP cleanings sewage treatment and seawater desalination, circulating cooling water, environmental water quality monitoring

### *Characteristics*

- Conductivity/Concentration/TDS/Temperature integration.
- Conductivity/TDS/concentration/temperature transmit.
- RS485 MODBUS-RTU protocol.
- Double channels/isolated (4~20)mA output, Instrument/Transmitter mode fbr selection.
- 3.5"320×240 TFT color screen, Chinese/English for optional.
- Touch keys, humanism operation interfaces guided menu.
- Support conductivity measurement range (0.5-2000)mS/cm, Auto range.
- Application-oriented can be customized, designed accessory for a variety of use conditions.
- Built-in NaOH, HNO3 concentration curve, Other newsolution can be calibrate.
- Sensor material for optional, for highly corrosive, health requirements.
- Electromagnetic compatibility, with strong ability of anti-interference.
- Calendar function which can set timing and reserved timing.
- Password protection flinction, strengthen system security.



### *Main technical features*

| | | |
|---|---|---|
| Measurement range | Conductivity: (500–2,000,000) μS/cm<br>Concentration:<br>1. NaOH: (0–15)% or (25–50)%;<br>2. HNO3: (0~25)% or (36~82)%;<br>3. User–defined concentration curves<br>TDS: (250–1,000,000)ppm<br>Temp: (0.0–120.0)℃ | |
| Resolution | Conductivity: 0.01μS/cm; Concentration: 0.01%; TDS: 0.01 ppm; Temp.: 0.1℃ | |
| Accuracy | Conductivity: (500~1000)μS/cm ±10μS/cm<br>(1~2000)mS/cm ±1.0%<br>TDS: 1.5 level<br>Temp: ±0.5℃ | |
| Temp, compensation | range: (0.0~120.0)℃ | element: Pt1000 |
| Analog output | Two channels isolated、transportable (4~20)mA, Instrument / Transmitter for selection | |
| Control output | Triple channels semiconductor photoelectric switch, Programmable Switch, pulse and frequency | |
| Power supply | AC/DC 30V, 50mA(max) | |
| Data communication | RS485, Modbus RTU protocol | |
| Power supply Consumption | DC 24V±15%<br><5.5W | |
| Working environment | Temperature (0~50)℃ ; Relative Humidity ≤ 85%RH (non–condensing) | |
| Storage | Temperature (–20~60)℃ ; Relative Humidity ≤ 85%RH (non–condensing) | |
| Protection level | IP65 (with rear cover) | |
| Outline dimension | 96mm×96mm×94mm (H×W×D) | |
| Hole dimension | 91mm×91mm (H×W) | |
| Installation | Panel mounted, fast installation | |



# CCT-8301A Conductivity/Resistivity/TDS/TEMP Online Controller

### *Application*

Multi-effect distilled water fbr medical systems, boiler bottom water, condensate, heat exchange systems, industrial thermal mechanical parts cleaning, industrial water recycling and conductivity online analysis at high temperature environments running water quality management and automated control over a wide temperature range.




### *Characteristics*

- Integrates conductivity/resistivity/tcmperature.
- 3.5" 320×240 TFT color screen, multiple parameter display in same screen.
- With the Conductivity constant 0.01; 0.1; 1.0; 10.0 ($cm^{-1}$).
- Automatic range switch, arbitary setting for measurement unit.
- Double channel, Isolated (4-20)mA, Instniment/Transmitter for selection.
- Control、transmit, arbitary combination for conductivity/resistivity/TDS/temperature.
- Triple channels Photo-electrical switch control, Choose to conductivity/resislivity/temperaturc/time.
- Switching logic can be set, Static logic or pulse logic for optional.
- Calendar function, time setting, and making an appointment, provide time tags for recording data.
- Pt 1000 temperature compensation, with the professionalization of temperature measurement/temperature control.
- Complete isolated channel for the Power, measuretnent, transmitter and control.
- RS485communication port, Standard Modbus RTU protocol.
- Optimal electromagnetic compatibility design, good anti-jamming performance.
- DC24V power supply, conform to the salely standards of high humidity site (Port polarity internal automatic idcntilicalion).
- Password protection function, strengthen system security, With the CE Certification.

### *Main technical features*

| Constant | 10.00$cm^{-1}$ | 1.000$cm^{-1}$ | 0.100$cm^{-1}$ | 0.010$cm^{-1}$ |
|---|---|---|---|---|
| Conductivity | (500–100,000)μS/cm | (1.0–10,000)μS/cm | (0.5–200)μS/cm | (0.05–18.25)MΩ.cm |
| TDS | (250–50,000)ppm | (0.5–5,000)ppm | (0.25–100)ppm | —— |
| Temp | (0–180)℃ (Temp.Compensation: Pt 1000) | | | |
| Resolution | Conductivity: 0.01μS/cm, 0.0lmS/cm; Resistivity: 0.0lMΩ cm; TDS: 0.01 ppm; Temp: 0.1℃ | | | |
| Accuracy | Conductivity: 1.5% (FS); Resistivity: 2.0%(FS); TDS: 1.5% (FS); Temp: ±0.5℃ | | | |
| Temperature compensation | With 25℃ as standard under normal medium; With 90℃ as standard under high temp medium | | | |
| Analog Output | Double channel (4~20)mA, Instniment/Transmitter fbr selection | | | |
| Control Output | Triple channels photo–electronic semiconductor relay swith. Load capacity: AC/DC 30V,50mA (max) | | | |
| Communication port | RS485 Modbus RTU protocol | | | |
| Powder supply | DC 24V±15% | | | |
| Protection Level | IP65 (with the back cover) | | | |
| Working Environment | Temp. (0–50)℃ ; relative humidity ≤ 95%RH (non–condensing) | | | |
| Storage Environment | Temp. (–20–60) C; relative humidity ≤ 85%RH (non–condensing) | | | |
| Dimension | 96mm×96mm×94mm (H×W×D) | | | |
| Hole Size | 91mm×91mm (H×W) | | | |
| Installation | Panel mounted, fast installation | | | |

## CCT-5300E series Conductivity/Resistivity/ TDS Online Controller

### *Application*

High Cost-Effective, widely used for chemical industry, paper making industry, industrial coating, pharmaceutical, food, beverage, municipal water, Environmental and so on.






### *Characteristics*

- Integrated of Conductivity/Resistivity parameter measurement, support cell constant 0.01cm$^{-1}$, 0.1 cm$^{-1}$, 1.0cm$^{-1}$, 10.0 cm$^{-1}$.
- Automatic range switch, Intelligent core.
- White Background LCD display,various of symbols to lead operation.
- Arbitrary selection of Conductivity, resistivity and TDS.
- Check the conductivity, temperature, mA current at any time.
- Isolated, transportable (4-20)mA output, Instrument / Transmitter mode for selection.
- DC 24V; AC 110V; AC 220V power supply for selection.
- Measuring, communication, control are completely isolated, more stable.
- With the CE Certification.

### *Main technical features*

| Constant | 10.00cm$^{-1}$ | 1.000cm$^{-1}$ | 0.100cm$^{-1}$ | 0.010cm$^{-1}$ |
|---|---|---|---|---|
| Conductivity | (0.5-20,000)μS/cm | (0.5-2,000)μS/cm | (0.5-200)μS/cm | (0.05-18.25)MΩ.cm |
| TDS | (0.25-10,000)ppm | (0.25-1,000)ppm | (0.25-100)ppm | ---- |
| Medium Temp. | (0-50)℃ (Temp.Compensation: NTC10K) | | | |
| Accuracy | Conductivity | Resistivity | TDS | Temp |
| | 1.5% (FS) | 2.0% (FS) | 1.5% (FS) | ±0.5℃ |
| Cable length | ⩽ 20m(MAX) | | | |
| Temperature compensation | (0-50)℃ (with 25 ℃ as Standard) | | | |
| Transmitting Output | isolated、transportable (4-20)mA, Instrument / Transmitter for selection | | | |
| Control Output | relay contact: ON/OFF; Load capacity: AC 230V/5A(Max) | | | |
| Power Supply | CCT-5300E | | CCT-5320E | |
| | DC 24V | | AC 220V | |
| Working Environment | Temp. (0~50)℃ ; Relative Humidity ⩽ 85%RH (none condensation) | | | |
| Storage Environment | Temp. (-20-60)℃ ; Relative Humidity ⩽ 85%RH (none condensation) | | | |
| Dimension | 96mm×96mm×105mm (H×W×D) | | | |
| Hole Size | 91mm×91mm (H×W) | | | |
| Installation | Panel mounted, fast installation | | | |



## CCT-3300 Series Conductivity Online Controller

### *Application*

Widely used for chemical industry, pharmaceutical, food, beverage, industrial coating, municipal water, Environmental, etc. conductivity / resisitivity online measuring and control. It is a small-scale, industry leading and High Cost-Effective conductivity/resistivity integration online controller.






### *Characteristics*

- Integrated of Conductivity/Resistivity parameter measurement, support cell constant 0.01cm$^{-1}$, 0.1 cm$^{-1}$, 1.0cm$^{-1}$, 10.0 cm$^{-1}$.
- intelligent automatic range, automatic conversion in full range.
- Arbitrary selection of Conductivity, Resistivity and TDS.
- Check the conductivity, temperature, (4-20)mA at any time.
- Single channel Isolated (4-20) mA output, instrument/transmitter mode for selection.
- DC 24V; AC 110V; AC 220V power supply for selection.
- Measuring, communication, control are completely isolated, more stable.
- With the CE Certification.

### *Main technical features*

| Constant | 10.00cm$^{-1}$ | 1.000cm$^{-1}$ | 0.100cm$^{-1}$ | 0.010cm$^{-1}$ |
|---|---|---|---|---|
| Conductivity | (0.5-20)mS/cm | (0.5-2,000)μS/cm | (0.5-200)μS/cm | (0.05-18.25)MΩcm |
| TDS | (250-10.000)ppm | (0.5-1.000)ppm | (0.25-100)ppm | ---- |
| Medium Temp | (0-50)℃ | | | |
| Resolution | Conductivity | | TDS | Temp |
| | 0.01p.S/cm | | 0.01ppm | 0.1℃ |
| Accuracy | Conductivity | Resistivity | TDS | Temp |
| | 1.5% (FS) | 2.0% (FS) | 1.5% (FS) | ±0.5℃ |
| Temperature compensation | (0-50)℃ (with 25 ℃ as Standard) | | | |
| Cable length | ⩽ 5m(MAX) | | | |
| mA output | Isolated (4-20)mA, Instrument / Transmitter for selection | | | |
| Control Output | relay contact: ON/OFF, Load capacity: AC 230V/5A(Max) | | | |
| Working Environment | Temp. (0-50)℃ ; Relative Humidity ⩽ 85%RH (none condensation) | | | |
| Storage Environment | Temp. (-20-60)℃ ; Relative Humidity ⩽ 85%RH (none condensation) | | | |
| Power Supply | CCT-3300 | | CCT-3310 | CCT-3320 |
| | DC 24V | | AC 110V | AC 220V |
| Dimension | 48mm×96mm×80mm (H×W×D) | | | |
| Hole Size | 44mm×92mm (H×W) | | | |
| Installation | Panel mounted, fast installation | | | |

## ROC-2015 Single Stage RO Controller

### *Application*

Small size and simple single stage integration reverse osmosis control system.




### *Main Technical features*

| Model | ROC-2015 | |
|---|---|---|
| Single detection | Dry Contact input | Dry-run protection function |
| | | Low-pressure protection function |
| | | High-pressure protection function |
| | | Water level limit |
| | | High-pressure and low pressure flushing flushing function |
| Control port | Dry Contact output | Water feeding solenoid valve |
| | | RO flushing solenoid valve |
| | | Booster pump |
| | | Low-pressure water pump |
| Power supply | AC220V (±10%) 50/60Hz | |
| Working environment | (1) Temperature: (0~50) ℃ ; | |
| | (2) Relative Humidity : ≤ 85%RH (no condensation | |
| Dimension | 48×96×80mm( height xwidthxdepth) | |
| Hole size | 44×92mm (height xwidth) | |
| Installation | Panel mounted ,fast installtion | |
| Certification | CE | |







## ROC-2315 Single Stage Single Channel RO Controller

### *Application*

Single stage RO controller used for conductivity monitoring and process program control.





### *Main technical features*

| Controller Model | ROC-2315 | | |
|---|---|---|---|
| Signal detection (six channels) | Dry contact input | Raw water no water protection | |
| | | Low pressure protection | |
| | | High pressure Protection | |
| | | Pure water tank high level | |
| | | External control mode signal | |
| | | Running reset | |
| Control port (five channels) | Dry contact output | Raw water pump | SPST-NO Load, capacity AC 220V/3A Max AC 110V/5A Max |
| | | Inlet valve | |
| | | High pressure pump | |
| | | Flush valve | |
| | | Condutivity over-limit drainge valve | |
| Measurement detection point | Product water conductivity | | |
| Measurement range (ROC-2315) | Product water conductivity: 0.1-200μS/cm, 1 - 2000μS/cm or 10-999μS/cm (with different sensor) Product water Temp: 0-50℃ | | |
| Temp compensation | Automatic compensation, with 25℃ as the reference temperature | | |
| Accuracy | 1.5% (FS) | | |
| Working environment | Temp. (0~50)℃ ; Relative Humidity ≤ 85%RH (none condensation) | | |
| Storage environment | Temp. (-20~60)℃ ; Relative Humidity ≤ 85%RH (none condensation) | | |
| Power supply | Automatic compensation, with 25℃ as the reference temperature | | |
| Dimension | 96mm×96mm××130mm (H×W×D) | | |
| Hole size | 91mm×9imm (H×W) | | |
| Installation | Panel mounted, fast installation | | |

### *Order direction*

Basic order units
ROC-2315 Single Stage RO Controller
Conductivity cell selection

| Conductivity cell constant | Part No |
|---|---|
| 0.1cm$^{-1}$ | CON3133-13 |
| 1.0cm$^{-1}$ | CONI 134-13(standard) |
| 10.0cm$^{-1}$ | CON2136-13 |

***Note***

CONI 134-13 can't be used for food, beverage, medical or sanitary industries.

# ROC-8221 Single Stage Double Channels RO Controller

### *Application*

Single stage double channels integration RO controller used for conductivity monitoring and process program control.






## *Main technical features*

| Model | ROC-8221 | | |
|---|---|---|---|
| Signal detection (seven channels) | Dry contact input | Raw water tank level: double channels | Low level |
| | | | High level |
| | | Pure water tank level: double channels | Low level |
| | | | High level |
| | | Low pressure protection | |
| | | High pressure protection | |
| | | Pretreatment backwash signal | |
| Control port (five channels) | Dry contact output | Raw water pump | SPST-NO Load capacity AC 22OV/3A Max AC 110V/5A Max DC 24V/3A Max |
| | | Inlet valve | |
| | | High pressure pump | |
| | | Flush valve | |
| | | Conductivity over-limit draingc valve | |
| Measure detection points | Raw water conductivity, product water conductivity, raw water Temp | | |
| Conductivity Measurement Range | Raw water conductivity | Cell constant 10.0cm-1 | (0-20000) uS/cm |
| | | Cell constant 1.0cm-I | (0-2000) μS/cm |
| | Product water conductivity | Cell constant 1.0cm-I | (0-2000) μS/cm |
| | | Cell constant 0.1cm-I | (0-200) μS/cm |
| Medium Temp. | 0-50℃ | | |
| Accuracy | 1.5% (FS) | | |
| Communication | RS485 communication (Modbus protocol) | | |
| Working environment | Temp. (0-50)eC; Relative Humidity ≤ 85%RIl (none condensation) | | |
| Storage environment | Temp. (-20-60)*0; Relative Humidity ≤ 85%RH (none condensation) | | |
| Power supply | DC 24V±4V | | |
| Protection level | IP65 (with back cover) | | |
| Dimension | 130mm×l80mm×60mm (H×W×D) | | |
| Hole size | 122mm×172mm (H××W) | | |
| Installation | Panel mounted, fast installation | | |

## *Order direction*

Basic order unit : ROC-8221 single stage RO controller Conductivity cell selection

| Conductivity Cell Constant | Part No. | Remark |
|---|---|---|
| 0.1 $cm^{-1}$ | CON3133-13 | According to customer needs choose two pieces conductivity probe. |
| 1.0 $cm^{-1}$ | CONI 134-13 | |
| 1.0 $cm^{-1}$ | CON3134-14 | |
| 10.0 $cm^{-1}$ | CON2136-13 | |



# ROC-7000 Reverse Osmosis Control Integrated System

### *Application*

Applicable to all kinds of small and medium-sized single-stage, double-stage reverse osmosis control system. With simple operation, complete measurement and configuration, highly integrated system

### *Characteristics*

- Human-Computer Interface, 7 inch colour touch screen, dynamic process display.
- Conductivity test ' raw water, primary and secondary conductivity detection, with ultra-limit alarm and discharge drive.
- Human-computer interaction, pop-up soft keyboard, can set or modify the operating parameters, feature-rich, easy to operate.
- Automatic control, with built-in measurement analysis and DI/DO in control system, embedding the process running software, to achieve highly integration.
- Consumables management, consumables pre-processing capacity, the remaining processing capacity forecast makes the user know the operation of the consumables in time.
- Flush mode, the system flush for boot and shutdown, wash time can be free set.
- pH adjustment ' Real-time detection of pH, drive ph adjustment pump to balance pH (two-stage) at any time.
- Set the antiscale metering pump control, and chain with the original pump control.
- Leakage detection, real-time detect the system leakage signal, immediately stop if leakage alarm, to prevent the expansion of the situation.
- Flow detection, record the instantaneous flow of raw water, producing water and concentrated water, to save the cumulative flow.
- Restricted function of concentrated water flow, to avoid illegal operation of membrane components premature fouling caused by the pursuit of high recovery rate.
- Data storage, operating data recalls in the form of historical curves and data queue, make the user easier to compare and record, and has a U disk export function, and for data backup.
- Remote communication, RS485 communication port can achieve remote transmission through GPRS/WIFI or Zigebee and other wireless modules, but also access to the Internet to achieve remote real-time monitoring and fault diagnosis and other functions.
- Extended redundancy, the manufacturer can extend on basis of this series for user needs.
- Panel installation, detection modules are all built-in, so that the external distribution lines are rare, with simple and beautiful installation.
- Good electromagnetic compatibility (EMC) design, calmly deal with complex industrial field electromagnetic environment.



# ROC-7000 Reverse Osmosis Control Integrated System

## *Main technical features*

| | | | | |
|---|---|---|---|---|
| Controller type | Single-stage/Double-stage Reverse osmosis control integrated system | | | |
| Conductivity measurement parameters | Cell constant | 0.1cm$^{-1}$ | 1.0 cm$^{-1}$ | 10.0cm$^{-1}$ |
| | Raw water conductivity | | (0~2000)μS/cm | (0~20000) μS/cm |
| | Primary conductivity | (0~200) μS/cm | (0~2000)μS/cm | |
| | Secondary conductivity | (0~200) μS/cm | (0~2000) μS/cm | |
| | Temperature compensation | Automatic compensation on the basis of 25 ℃ compensation range (0~50) ℃ | | |
| | Accuracy | Matched precision: 1.5 level | | |
| Flow measurement range | Instantaneous flow | (0~999) m$^3$/h | | |
| | Accumulative flow | (0~9999999) m$^3$ | | |
| pH measurement parameters | Measurement range | 2~12 | | |
| | Accuracy | ±0.1pH | | |
| | Temperature compensation | Automatic compensation on the basis of 25 ℃ compensation range (0~50) ℃ | | |
| DI acquisition | Input signal | Low pressure switch of Tap water,high level of pure water tank, low level of pure water tank, low pressure switch before the pump, high pressure switch after the primary booster pump,high level of secondary pure water tank, low level of secondary pure water tank,high pressure switch after the secondary booster pump | | |
| | Signal Type | Passive switch contact | | |
| DO Control | Control output | Inlet valve, primary flush valve, primary drain valve, antiscalant pump, raw water pump, primary booster pump, secondary booster pump, secondary flush valve, secondary drain valve, pH adjustment metering pump. | | |
| | Electrical contact | Relay (ON/OFF) | | |
| | Load capacity | 3A(AC 250V)- 3A(DC 30V) | | |
| Display screen | Screen color:TFT ; resolution:800×480 | | | |
| Working power | Working power | DC 24V±4V | | |
| | Power consumption | ≤ 6.0W | | |
| Working environment | Temperature: (0~50)℃ : Relative humidity: ≤ 85%RH (non condensation) | | | |
| Storage environment | Temperature: (-20~60)℃ ; Relative humidity: ≤ 85%RH (non condensation) | | | |
| Installation | Panel mounted | Hole ( Length×Width , 192mm× 137mm) | | |

## *Order direction*

ROC-7100 Singe Stage Reverse Osmosis Control Integrated System
ROC-7200 Double Stage Reverse Osmosis Control Integrated System

| | ROC-7100 Single-stage reverse osmosis control integrated system | ROC-7200 Double-stage reverse osmosis control integrated system |
|---|---|---|
| Conductivity | Raw water conductivity<br>First stage produced water conductivity | Raw water conductivity<br>First stage produced water conductivity<br>Second stage produced water conductivity |
| Flow meter | Raw water flow<br>First stage produced water flow; First stage concentrated water Flow | Raw water flow<br>First stage concentrated water Flow<br>Second stage produced water flow |
| Leakage protector | 1 channel | 1 channel |
| PH | Raw water pH measurement | First stage produced water pH measuremen |



# FLP-1600-L Paddle Wheel Flow Sensor

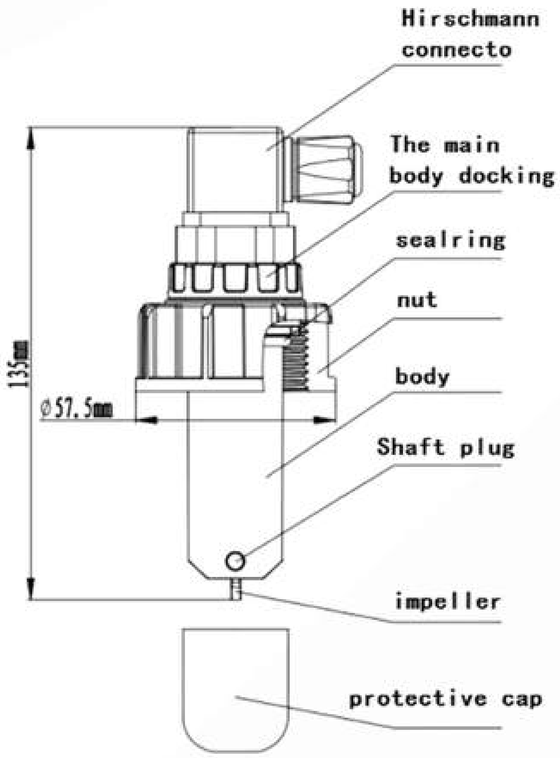
## *Application*

Windely used for measuring and calculating of flow volume and flow speed of municipal water, cooling water, pure water, high-pure water, the no stringiness impurity wastewater, thelow-stickiness liquid.



## *Main technical parameters*

- Material engineering plastic.
- Method of installation: input uprightly, fixed by screwing.
- Medium temperature: (0~60) ℃ .
- Saved temperature: (-20~70) ℃ .
- proof pressure: 0.6MPa.
- Power supply: DC 12V.
- Output impulse value: high level ≥8V( p-p).
- Transferring distance( the space between the sensor and the meter): ≤1000m.
- Applied pipe diameter: DN25-DN350.
- The material of the pipe(plastic, metal, glass fiber reinforced plastic,cement).
- Required circumstance: no strong disturbance of variation magnetic field around the sensor.
- Required water quality: a filter should be installed at the upward position if there are big granules and fiber in the pipe.



# FLS-1700-HD Sanitary Digital Paddle Wheel Flow Sensor

### *Application*

Flow accumulation and control for production processes in the health, pharmaceutical, food, beverage, pure water and other industries;

Meet the online instantaneous flow and accumulated flow measurement of water treatment processes such as clear water, purified water, and distilled water;

Low viscosity liquid flow of beer, brewing, extraction of traditional Chinese medicine ingredients, and other high-end manufacturing;

It can withstand a wide temperature range, and can withstand CIP cleaning and high temperature sterilization and weak acid and alkali decontamination;

Suitable for process control of marine fresh water system and water cooling system;

Application of various clean water process control parameters, not used as a trade settlement flow meter.



## *Main technical features*

| Single detection | FLS-1700-HD | |
|---|---|---|
| Measurement range | Instantaneous flow | (0-2000) $m^3/h$ |
| | Accumulative flow | (0-99999999) $m^3$ |
| | Flow rate | (0.6-5) m/s |
| Accuracy | 0.001 $m^3/h$ | |
| Accuracy level | 2.5 level | |
| Output signal | RS485(MODBUS protocol) | |
| Power supply | DC7-28V; power consumption: <0.5W | |
| Cable length | 10m as standard,negotiable (1~1000)m | |
| Storage environment | Temperature: (-20-60) ℃ ; Relative humidity: ⩽ 85%RH(none condensation) | |
| Protection level | IP66 | |
| Main body material | 316LS.St | |
| Max pressure | ⩽ IMPa | |
| Max standard temperature | 120℃ | |
| Installation mode | Tangential installation | |
| Pipeline size | 1-1/4" 1-1/2" 2" (Can be customized ) | |
| Measure material feature | Single phase (5~120℃ ) | |



# FCT-8350 Flow Meter



### *Application*

Widely used for online measurement of acid&alkali in low concentrations and the low viscosity single-phase fluid of non-trade settlement process.

### *Characteristics*

- K coefficient and standard diameter/non-standard of a variety of settings way, flexible and convenient.
- Different kinds of the engineer working load could be chosen, it can meet the measurement standards of different country and region.
- (Instantaneous flow high/low limit alarm, instantaneous flow frequency) multiple alarm settings.
- The frequency pulse of instantaneous flow rate, direct sensor pulse integrating volume frequency division, integrating volume pulse and many kinds of control mode for selection.
- To start the polyline modification for the measurements to provide better precision correction.
- Compatible with tangential type/axial type pulse sensor.
- Small signal cutting and small signal correction function, to meet the operation compensation under low flow rate condition.
- 3.5 inch screen, Multi-parameter display and Chinese/English for selection, Heuristic operation.
- Semiconductor photoelectric relay (non contact), switch control/proportional pulse control.
- It can achieve the ratio of flow parameter pulse pharmacy dosing.
- Measurement/control/transmission each unit can complete electrical isolated, each other without any interference.
- Can program Current transmitting between any two points in whole flow range.
- Isolated (4-20)mA current loop, Instrument/Transmitter fbr selection.
- EMC design with better ability on anti-interference.
- Meeting High humidity site safety power supply regulation, DC 24V with standard.

## *Main technical features*

| Measurement Range | Instantaneous flow: (0-2000)$m^3/h$; Accumulated flow: (0-99999999)$m^3$ |
|---|---|
| Flow Rate | (0-5)m/s |
| Applicable Pipe Diameter | DN25-DN1000 for selection |
| Resolution | 0.001m3/h |
| Renew Interval | IS |
| Accuracy | 2.0 level |
| Repeatability | ±0.5% |
| Probe Input | Range: 0.5Hz-2KHz; Power supply: DC 12V (instrument supply) |
| Analog output | (4-20)mA, Instrument/Transmitter for selection |
| Control Output | Semi-conductor photo electronic relay, Load current: 50mA(max) AC/DC 30V |
| Control Mode | Instantaneous flow high/low limit alarm, flow variable frequency conversion |
| | probe pulse frequency division, integrating value pulse, control on/off function |
| Working Power | FCT-8350 |
| | DC24V |
| Power consumption | ⩽ 3.0W |
| Cable Length | 5m as standard or (1-500)m for selection |
| Working Environment | Temp (0~50)℃ ; relative humidity ⩽ 85%RH (non condensation) |
| Storage Environment | Temp (-20~60)℃ ; relative humidity ⩽ 85%RH (non condensation) |
| Protection level | IP65 (with back cover) |
| Dimension | 96mm×96mm×94mm (H×W×D) |
| Hole size | 91mm×91mm (H×W) |
| Installation | Panel mounted, fast installation |



Saddle mounting tee



316L st.st.saddle mounting fitting



Saddle seat mounting



DN25-DN100, Saddle mounting tee



DN65-DN300, Saddle seat mounting



Saddle mounting fitting



st.st saddle mounting fitting

# FOC-1015 Ultrasonic Open Channel Flow Meter

### *Application*

Ultrasonic open channel flowmeter is a high-precision flow meter that uses ultrasonic waves to measure Venturi or Parshall troughs.The flowmeter measures the time that the sound wave reflects back after touching the water surface of the channel, and then calculates the flow rate of the channel according to the formula,The flow meter can provide flow output, display flow rate, display total flow, and display water level. This instrument is used with the weir tank and is mainly used to measure the sewage flow in the channel with free flow conditions. When the instrument is working, the sensor is not in contact with the measured fluid, which avoids the contamination and corrosion of sewage in the channel. For measuring sewage flow, it can have higher reliability than other forms of meters.

### *Characteristics*

- Water and sewage treatment.
- Electricity, mine.
- Food Industry.
- Petrochemical.
- Streams, lakes, rivers.
- Inlet canal, outlet canal, etc.





## *Main technical features*

| | |
|---|---|
| Flow measurement range | 0~93m³/s (related to the specification of the weir and groove used to determine the range)<br>Accumulated flow range: 99999999 Km³ |
| Suitable weir and groove types | triangular weir, rectangular weir, equal-width weir, Parshall trough<br>(Equipped with triangular weir: 1 ~2% Equipped with rectangular weir: 1~4% Equipped with Parshall trough: 3%) |
| Display | Chinese and English large-screen LCD, color TFT (optional) |
| Display screen | liquid level height, instantaneous flow, cumulative flow, hourly flow, daily flow, weekly flow, monthly flow, year, month, day, battery power (can be set arbitrarily) |
| Signal input | (Please selected when ordering)<br>Digital signal: RS485 (support Modbus protocol)<br>Current signal: 4-20mA;Transducer Signal: Voltage |
| Signal output | (Please selected when ordering)<br>Voltage output: DC 12V or 24V ;Analog output signal: 0~20mA; 4~20mA load>300Ω; 0~5V;0~10V;Digital output: RS485 (support Modbus); USB, memory card 8G; |
| Switch output | two-way NPN/3 relay (AC: 5A 250V DC: 10A 24V) |
| Working voltage | DC 12-24V or AC 160V~250V |



# 8920 Local display&Inteerated transmitter series

### *Application*

- Component analysis data collection at various points in the industrial chemical process
- Online analysis of various water quality parameters in large-scale water treatment systems
- On-site data detection and analysis of large sewage treatment plants
- Combined with DCS system and PLC system to form a distributed automatic control system

### *Performance characteristics*

- Integrated design of sensor and instrument, directly installed on the pipeline.
- The sealed plastic shell can meet the environment of dust, water droplets, rain and fog on site.
- Most of the measurement attributes can be used for two-phase power distribution, and the system failure rate is low.
- The on-site display function eliminates the interaction with the walkie-talkie in the central control room.
- With (4-20) mA and RS485 optional current and data communication modes.
- The built-in electronic switch meets the local servo control of metering pumps in multiple modes.
- Establish stable remote detection and control integration with PLC and DSC systems.




## *Order direction*

| Item | Model | description |
|---|---|---|
| 1 | CIT-8920 | Inductive conductivity & Concentration |
| 2 | CCT-8920 | Conductivity/Resistivity/TDS |
| 3 | pH-8920 | pH |
| 4 | ORP-8920 | ORP |
| 5 | FCT-8920 | Flow |
| 6 | FET-8920 | Insert electromagnetic flow |
| 7 | ULM-8920 | Ultrasonic level |

# ULM-8920 Ultrasonic Level Meter Transmitter

### *Application*

It widely used in liquid-level measurement and material-level in the oil, paper, mining, power plants, chemical industry, water treatment plants, waste water purification, pharmaceutical, agricultural pumping, environmental monitoring, sewage treatment and other fields.



### *Performance characteristics*

- voltage range wide, DC voltage (9-32) V.
- two-channel semiconductor photoelectric switch control output.
- can be set to any output starting and ending.
- manually set the digital filter.
- set emission intensity according condition.
- a serial communication, better compatibility with different scene.

## *Technical specification*

| Model | ULM-8920 | |
|---|---|---|
| Measurement range | 3m (The longer can be customized) | |
| Dead zone | 0.3m (can be customized) | |
| Resolution | 0.001m | |
| Accuracy | ±0.3%×FS or ±2mm(max) | |
| Display | 4 LED | |
| Transmitting Output | No.of channel | No.of channel |
| | Loop resistance | Loop resistance |
| Commmunication port | RS-485 (Modbus protol) | |
| Control output | No.of Channel | Double channels |
| | Electrical contact | Semiconductor photoelectric relay 50mA (Max) , AC/DC 30V |
| Working power source | Power supply | DC (12~24)V |
| | Power Consumption | ⩽ 1.5W |
| Working environment | Temperature: (0-5 0) ℃ ; Relative humidity: ⩽ 85%RH(none condensation) | |
| Storage environment | Temperature:(-40-85) ℃ ; Pressure: Normal; Relative humidity: ⩽ 85%RH(none condensation) | |
| Protection | IP65 | |
| Dimension size | 90mm×200mm ×(M60) | |
| Installation method | Installation hole M60×2 | |



# FET-8920 Insert Electromagnetic Flow Meter

### *Application*

It can be widely used in the measurement of fluid flow in industrial processes such as clean water pipeline, sewage treatment, petrochemical, metallurgy, papermaking and other industries.



### *Characteristics*

- Engineering units can be selected, standard pipe diameter / non-standard pipe diameter can be set.
- Internal optional (4-20) mA analog signal, meter/transmission dual mode/RS485 digital communication and pulse output, with perfect flow alarm control function.
- Integrated tangential measurement and installation accessories are abundant and easy to construct.
- DC 9-28V power supply、Non polarity connection and internal automatic identification.

## *Main Technical Features*

| Instrument model | FET-8920 | |
|---|---|---|
| Measurement range | Instantaneous flow | (0-2000)$m^3$/h |
| | Accumulative flow | (0-99999999)$m^3$ |
| | Flow rate | (0.5-5)m/s |
| Resolution | 0.001$m^3$/h | |
| Accuracy level | Less than 2.5% RS or 0.025m/s.whichever is the largest | |
| Conductivity | >20μS/cm | |
| (4-20)mA output | Number of channels | Single channel |
| | Technical features | Isolated,reversible,adjustable, meter/transmission dual mode |
| | Loop resistance | 400Ω (Max), DC 24V |
| | Transmission accuracy | ±0.1mA |
| Control output | Number of channels | Single channel |
| | Electrical contact | Semiconductor photoelectric relay |
| | Load capacity | 50mA (Max) , DC 30V |
| | Control mode | Instantaneous amount upper/ lower limit alarm |
| Digital output | RS485(MODBUS protocol),Impulse output 1 KHz | |
| Working power source | Power supply | DC 9-28V |
| | Power Consumption | ⩽ 3.0W |
| | Diameter | DN40-DN300(can be customized) |
| Working environment | Temperature:(0-50) ℃ ; Relative humidity: ⩽ 85%RH(none condensation) | |
| Storage environment | Temperature:(-20-60) ℃ ; Relative humidity: ⩽ 85%RH(none condensation) | |
| Protection grade | IP65 | |
| Installation method | Insertion pipeline installation | |

The flow meter can be quickly installed on the pipe with a dedicated saddle mounting fitting.



The flow meter lug must be snapped into the mounting.



# FCT-8920 Flow Transmitter

### *Application*

Widely use in Water pipeline in industrial process,Single-phase fluid with low viscosity,Acid and alkali liquid with low concentration,Non-trade settlement process measurement and control.



### *Performance characteristics*

- Various setting ways of coefficient K and standard pipe diameter/non-standard pipe diameter.
- A variety of engineering units can be chose to meet measurement standards of different countries and areas.
- Internal optional (4-20)mA analog signal, instrument/transmitting dual-mode/ RS485 digital communication.
- Programming current transmitting between any two points in the range of whole velocity.
- Flow alarm, flow frequency conversion, impeller pulse frequency division, integrating volume pulse, a variety of control mode selection.
- DC24V centralized power supply, transmitter non-polarity connection, internal automatic identification.
- Good electromagnetic compatibility(EMC) design, compatible with complex electromagnetic environment of industrial field.

## *Main Technical Features*

| Instrument model | FCT-8920 | |
|---|---|---|
| Measurement range | Instantaneous flow | (0-2000)$m^3$/h |
| | Accumulative flow | (0-99999999)$m^3$ |
| | Flow rate | (0-5)m/s |
| Resolution | 0.001$m^3$/h | |
| Refresh rate | 1s | |
| Accuracy grade | Grade 2.0 | |
| Repeatability | ±0.5% | |
| (4~20)mA output | Number of channels | Single channel |
| | Technical features | Isolation, inversion, adjustable, instrument/transmitting dual mode |
| | Loop resistance | 300Ω (Max)、DC 24V |
| | Transmission accuracy | ±0.1mA |
| Control output | Number of channels | Single channel |
| | Electrical contact | Semiconductor photoelectric relay |
| | Load capacity | 50mA (Max), AC/DC 30V |
| | Control mode | Upper/lower limit alarm of instantaneous flow, integrating amount/pulse, instantaneous flow frequency conversion, impeller pulse frequency division |
| Digital output | RS485(MODBUS protocol) | |
| Working power source | Power supply | DC 24V±4V |
| | Power Consumption | ⩽ 3.0W |
| | Applicable pipe diameter | DN25~DN350(otherwise agreed about large pipe diameter) |
| Working environment | Temperature:(0-50) ℃ ; Relative humidity: ⩽ 85%RH(none condensation) | |
| Storage environment | Temperature: (-20~60) ℃ ; Relative humidity: ⩽ 85%RH(none condensation) | |
| Protection grade | IP65 | |
| Installation method | Plug-in pipeline installation | |



# Pressure Transmitter / Temperature Transmitter

## *Pressure Transmitter*

| Photo |  |  |  |
|---|---|---|---|
| Sensor type | Piezo resistive | Diffusion Silicon | Ceramic Capacitor |
| Accuracy rating | 0.50% | 0.50% | 0.50% |
| Relative Pressure (Range) | 0-0.05-60MPa | 0-0.01-40MPa | 0-0.001-2MPa |
| Signal Output | | 4-20mA or 1-5V | |
| Power Supply | +24VD&15% | 24VDC±15% | 24VDC±15% |
| Communication | None | Optional: Hart | Optional: RS485 |
| Body Material | | Stainless Steel | |
| Eclosion Proof | None | ExdIIBT6 or ExiaIICT4 | ExdIIBT6 or ExiaIICT4 |
| Protection Rating | IP60 | IP65 | IP65 |
| Connection | | Thread or Flange | |
| Fluid Tenperature | -20℃~85℃ | -20℃~85℃ | -20℃~85℃ |
| Ambient Temperature | -30℃~60℃ | -30℃~60℃ | -30℃~60℃ |

## *Temperature Transmitter*

### *Characteristics*

- Thermal resistance measurement range: Pt100 -200~600 C, Cu50 -50~150 ℃ .
- Thermocouple Measurement Range: K indexing 0~1200 ℃; Eindexing: 200~800 ℃; S Indexing: 0~1600 ℃ .
- Temperature drift: ± 0.025% ℃ , annual drift <± 0.5%.
- Supply voltage: 24VDC ± 10% (4~20mA current-modules minimum operating voltage of 10V, remaining need for load).
- Load capacity: 0 to 600 ohms (at 24V voltage) line variation <± 0.015% V Voltage - Maximum output current: <3mA output voltage of 3V operating voltage up to work.



## Accessories

***Conductivity Sensor***



***Dissolved Oxygen Sensor***



***pH/ORP Sensor***



***Flow Sensor***



***Digital Sensor (4-20mA output or RS485 for selecting)***



***Accessories***



***Sensor Bracket***





