

KANGZHUO TECHNOLOGY

A leading influential control systems manufacturer in China since 2009

Water Quality Sensor

CATALOG



Water Quality Sensor

KZEC-220 Non-Contact Conductivity Sensor

KZEC-220 uses a generator to create an alternating magnetic field in the primary coil, inducing an electric current in remnant in the medium. The intensity of this induced current depends on the conductivity (i.e., ion concentration) of the medium. The induced current then generates another magnetic field in the secondary coil. Features

- Digital sensor current through another magnetic field in the secondary coil.
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- Features
 - Digital sensor, direct, directly outputs RS-485 digital signals, supporting MODBUS/RTU protocol.
 - Built-in temperature sensor for automatic temperature compensation.
 - Electrode-free design for automatic temperature compensation.
 - Electrode-free design, eliminating polarization reactions.
 - Electrode-free design, isolated from the medium, enabling high-precision measurement for heavy or easy/low operation and media/solutions, with low operation and maintenance costs.
 - Low power consumption, with anti-interference design for internal circuits.



Technical Specifications

- Measuring Range: 0~200mS/cm (customizable up to 600mS/cm)
- Customizable Range: 0~0.6MPa (high-temperature)
- Operating Conditions: 0~65, IPa
- Operating Conditions:
- Operating Temperature Range:
- Diameter 30mm x 185.5mm
- Protection Length 185.5mm
- Response Time: 0 seconds (T90)
- Measuring Dimension:
- Ambient: Class: Degree IP66, probe IP68
- Ambient Temperature: Display unit 20 probe -20~60°C
- Dimensions: dia/sdumption, with anti-interference and probe selection

Water Quality Sensor

KZDO-210 Optical Dissolved Oxygen Sensor

The surface of the fluorescent material at the sensor tip is covered with a thin layer of fluorescent material. When blue light is emitted by a Light emitting diode (LED) fluorescent material, the fluorescent material returning from an excited state to the ground state. This fluorescence serves as the light signal in the sensor, which outputs RS-485 digital signals, supporting MODBUS/RTU protocol.

- Features • Digital sensor, directly outputs RS-485 digital signals, secondary and built-in temperature sensor with built-in salinity compensations
- Optical measurement method for accurate temperature compensation.
- Electrode-free design, eliminating polarization reactions. • Electrode-free Equipped with an optical system to measure oxygen during measurements to a precision in dissolved oxygen to resist interference and ensure good stability. • Made of 316L stainless steel materials, for long operation and maintenance free.
- Featuring consumption, anti-interference capability, with low power consumption for the sensor.



Technical Specifications

- Measuring Range: 0~200mg/L (customizable up to 600mg/L)
- Measuring Range: 0~20mg/L (high accuracy)
- Operating Conditions: 0~45, kPa
- Operating Conditions:
- Operating Temperature Range:
- Diameter 30mm x 189.5mm
- Protection Length 189.5mm
- Response Time: 0 seconds (T90)

- Measuring Dimension:
- Ambient: stainless steel, probe IP68
- Ambient Temperature Dependency: 20 probe 20~60°C
- Dimensions: compact, with anti-interference and probe protection

Water Quality Sensor

KZNH3-210 Ammonia Nitrogen Sensor

Ammonia Nitrogen Sensor This sensor adopts an industrial online electrode, made with a PVC membrane ammonium ion selective electrode, which can selectively test the ammonium ion content in water with fast and accurate measurement. It is equipped with a built-in temperature sensor for automatic temperature compensation, making it suitable for long-term online monitoring in environmental scenarios.

- Features sensor, directly outputs RS-485 digital signals, supporting MODBUS/RTU protocol.
- Features • Digital sensor for automatic temperature compensation.
- Digital sensor, directly outputs RS-485 digital signals, supporting MODBUS/RTU protocol, making it suitable for long-term online monitoring in environmental scenarios.
- Built-in temperature sensor for automatic temperature compensation.
- Built-in temperature sensor for automatic temperature compensation.
- Innovative replaceable membrane head, reducing membrane replacement and maintenance testing.
- Innovative replaceable membrane head, reducing membrane replacement and maintenance testing.
- Housed made of 316L stainless steel.



- Technical Specifications
- Measuring Range: 0~10.0 mg/L or 0~100.0 mg/L (pH range 4-10)
- Operating Conditions: 0~30°C; <0.2MPa
- Operating Conditions: 0~40°C; <0.2MPa
- Response Time: 10m (secondized)
- Response Time: 30m default
- Dimension: 30 second (T90)
- Dimension: Ø 38×181.5mm
- Cable Length: 10m (default, customized)
- Dimensions: Ø-upper installed design for installation.
- Low power consumption with interferences
- pH and potassium ion membrane head, reduce replacement and maintenance testing.
- Housed made of 316L stainless steel.

Water Quality Sensor

KZSS-220 Self-Cleaning Sludge Concentration Sensor

KZSS-220 is a basic digital sludge concentration sensor for conventional water quality monitoring. It adopts the mature obtuse angle scattered light principle from abroad, using infrared LED and sound fiber condensation optical path design. With an internal filter design, it boasts strong anti-interference and long-term stability, making it suitable for long-term coline interference ability against external light.

- Features sensor, directly outputs RS-485 digital signals, supporting MODBUS/RTU protocol.
- Features • Digital sensor, directly outputs RS-485 digital signals, supporting MODBUS/RTU protocol.
- Equipped with an automatic cleaning brush and an automatic cleaning brush and an automatic cleaning brush.
 - Based on 140 degree air bubbles.
- Built-in temperature sensor for automatic temperature compensation. • Outputs RS-485 digital signals, supporting MODBUS/RTU protocol.
- Built-in temperature sensor for automatic temperature compensation.
- Low power consumption sensor for automatic temperature compensation. • Innovative self-cleaning membrane design, reducing membrane replacement and maintenance costs.
- Housing made of 304 stainless steel.



Technical Specifications

- Measuring Range: 0~200mg/L or 0~2000mg/L (opt range 4-10)
- Operating Conditions: 0~50°C; <0.6MPa
- Operating Conditions: 0~50°C; <0.6MPa
- Response Time: 10m (second)
- Response Time: 38×181.5mm,
- Dimension 30 second (T90)
- Dimension 38×181.5mm

- Surface treated with anti-corrosion treatment.
- Made of 316L stainless steel design for installation.
- Low power consumption with anti-interference design.
- Technical innovation on a membrane head. 20000mg replacement and maintenance.
- Housing made of 316L stainless steel.

Water Quality Sensor

KZTS-220 Self-Cleaning Turbidity Sensor

KZTS-220 is a basic digital turbidity sensor for utility sensor for conventional water quality monitoring. It adopts the mature 90° scattered light principle from abroad, utilizing an infrared LED light source and an optical fiber conduct signal, with strong anti-interference ability against external light, directly outputs RS-485 digital signals with strong anti-interference ability against external light.

- Features with an directly outputs RS-485 digital signals, supporting MODBUS/RTU protocol.
- Features · Digital sensor, cleaning brush to probes, and reduce later maintenance.
- Equipped with an automatic an automatic cleaning brush in strong an ballinate and bubble on ouline
 - Based on 90° angle scattered air bubbles.
- Built-in temperature sensor for average-outputs RS-485 digital signals, supporting MODBUS/light principle.
- Infrared LED light source with automatic temperature compensation.
- Interference resistant light source interference compensation. · Low power rated while anti-corrosions anen, raduing membrane reflectance and maintenance sensor.
- Made of 316L stainless steel material.



- Technical Specifications
- Measuring Range: 0~3000NTU
- Measuring Range: 0~3000NTU
- Operating Conditions: 0~50°C, <0.1MPa
- Dimensions: Diameter 38mm;
- Diameter 38mm: 181.5mm
- Response Time: 30 seconds (T90)

- Surface treated with anti-corrosion acid.
- Infrared of 36L onper instatted design for irradiation.
- Low power consumption with an anti interfer good design.
- Surface treated with anti-corrosion passivation.
- Low power consumption of the sensor
- Mand made of 316L stainless steel.

Water Quality Sensor

KZCL-210 Residual Chlorine Sensor

KZCL-210 is a basic digital residual chlorine sensor for conventional water quality monitoring. It adopts an industrial online electrode and the advanced non-membrane constant potential eliminating the need for membrane replacement and reagent consumption. It is featured by high accuracy, high sensitivity, fast response, directly outputs digital signals, and is resistant to interference against consumption.

- Features • Digital sensor, outputs RS-485 digital signals, supporting MODBUS/RTU protocol.
- Features • Digital sensor, directly outputs 4-20mA analog signals, and provides external light.
- Equipped voltage measurement principle, eliminating the need for an online and bubble on-line residual chlorine in solution or bubbles.
- Built-in temperature sensor for direct outputs RS-485 digital signals, supporting MODBUS/RTU principle.
- Infrared LED light sensor for automatic temperature compensation.
- Built-in temperature sensor for automatic temperature compensation. • Low constant voltage measurement principle, no need for membrane replacement or reagent.
- Required, with simple maintenance.



- Technical Specifications
- Measuring Range: 0~0~5ppm
- Measuring Range: 0~2000NTU
- Operating Conditions: 0~50°C, <0.1MPa
- Dimensions: Diameter 38mm
- Diameter 30mm: 183.9mm
- Response Time: 30 seconds (30)

- Surface treated with anti-corrosion treatment.
- Made of 316L stainless steel for installation.
- Low power consumption with excellent inter-ferer good design.
- Surface treated with anti-corrosion passivation.
- Low power consumption of the sensor
- Made of 316L stainless steel.

Water Quality Sensor

KZNO-210 Online Optical Nitrate Nitrogen (NO₃-N) Sensor

KZNO-210 Online optical nitrate nitrogen (NO₃-N) Sensor is designed for the non-invasive measurement of nitrate nitrogen in water. It is based on a non-destructive optical method, which is highly accurate and reliable. The sensor is suitable for use in various water bodies, including rivers, lakes, and oceans. It is also suitable for use in industrial and municipal water supply systems. The sensor is easy to install and maintain, and it provides real-time monitoring of nitrate nitrogen levels.

- Provides accurate and reliable measurement of nitrate nitrogen levels in water.
- All-in-one design, easy to install and maintain.
- Non-destructive optical method, no need for reagents or consumables.
- Suitable for use in various water bodies, including rivers, lakes, and oceans.
- Suitable for use in industrial and municipal water supply systems.
- Real-time monitoring of nitrate nitrogen levels.
- Easy to install and maintain.
- Provides accurate and reliable measurement of nitrate nitrogen levels in water.



Technical Specifications

- Measuring Range:
 - 0–200mg/l,
 - 0–2000mg/l or expandable based on requirements
- Resolution: 0.01mg/l
- Error: ±3%FS
- Display Method: LCD

Contact

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