AAXIS NANO
TECHNOLOGIES
Solutions For A Sustainable Environment

Leading the way in

Water Quality Monitoring.

Parameters

- Chlorine
- Chlorine Dioxide
- Conductivity
- Dissolved Ammonia
- Dissolved Oxygen
- Dissolved Ozone
- Dissolved Sulfide
- Filter Backwash
- Fluoride
- UV254
- Nitrite
- ORP
- Peracetic Acid
- Permanganate
- pH
- Pressure
- Residual Sulfite
- Sludge Blanket
- Suspended Solids
- Turbidity
- Hydrogen Peroxide

Chlorine Monitoring

Application Industries

- Portable Water
- Waste Water
- Pharmaceutical
- Food & Beverages
- HVAC

Q45H/62-63 Residual Chlorine Transmitter

Q46H/62-63 Residual Chlorine Monitor

Q46H/79S Total Chlorine Air Stripping Unit

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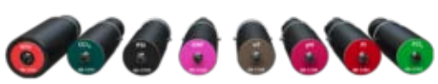
Chlorine is an effective disinfectant and oxidant used globally within drinking water, wastewater, food processing, swimming pools and cooling tower applications.

- We are all types of online chlorine monitoring for both water and gas applications, offering solutions from both our smart water and q-series range of water quality monitors.
- Reliable monitoring is the primary tool for controlling chlorine addition to reach the desired residual.
- Too little chlorine can result in pathogen contamination, contaminant regrowth in the distribution system, and non-compliance with regulatory guidelines.
- Too much chlorine can lead to disinfection by-product formation, taste and odour problems, and consumer complaints.



M-Node Smart Sensors

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Chlornet Portable Chlorine Monitor

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A22 Chlorlog

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Chlorine Dioxide Monitoring

Application Industries

Portable Water | Waste Water | Pharmaceutical | Food & Beverages | HVAC

Q46H/65 Chlorine Dioxide Monitor

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Q45H/65 Chlorine Dioxide Transmitter

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Chloride Dioxide (ClO2) is used in drinking water treatment as a disinfectant and oxidising agent to prevent the growth of bacteria within the distribution system.

- Continuous monitoring and measurement ensure the effective use of chlorine dioxide for disinfection purposes, along with other applications.
- Aaxis Nano provides economical, reliable, and reagent-free measurement solutions for water quality monitoring and controlling ClO2 treatment systems.

Conductivity Monitoring

Application Industries

Portable Water | Waste Water | Pharmaceutical | Food & Beverages | HVAC

Q46C4 4E Conductivity Monitor

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Q46C2 2E Conductivity Monitor

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Q45C2 2E Resistivity Transmitter

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Conductivity measurements are useful to indicate the amount of dissolved ions present in a water sample and can serve as a measure of water quality.

- Low-level conductivity measurements are essential for a variety of water quality monitoring applications.
- The correct operation of deionisers, reverse osmosis membranes, ion exchange systems and heat exchangers require continuous monitoring to ensure high quality water.

Industries such as water treatment have adopted the measurement expressed as TDS (Total Dissolved Solids) and conductivity is a good measure to reflect the amount of TDS or salinity of a water source.

Q46CT Toroidal Conductivity Monitor

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Q45CT Toroidal Conductivity Transmitter

Request A Quote

Q40CT Blind Toroidal Conductivity Transmitter

Request A Quote

Dissolved Ammonia Monitoring

Application Industries

Portable Water | Waste Water | Pharmaceutical | Food & Beverages | HVAC

Q46N Dissolved Ammonia Monitor

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Dissolved Ammonia is a colourless, reactive gas that is lighter than air and dissolves readily in water, with a pungent odour.
It is commonly used as both a reagent and as a measurement parameter in water and wastewater treatment processes.

- High concentrations of Ammonia can cause damage and pose health risks, therefore monitoring and maintaining ammonia levels is vital.
- When unwanted ammonia combines with chlorine, it diminishes the disinfection strength of chlorination.

It measure low-level total Ammonia, suited to environmental applications such as river inlet monitoring and waste water final effluent, or free and total Ammonia for the control of chloramination processes.

Dissolved Sulfide Monitoring

Application Industries

Portable Water | Waste Water | Pharmaceutical | Food & Beverages | HVAC

Q46S/81 Dissolved Sulfide Monitor

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Dissolved Sulfide is an inorganic anion of sulfur and comes in three categories: organic, inorganic, and phosphine.

Sulfides come in three categories: organic, inorganic, and phosphine. are formed when sulfur bonds with an organic phosphine.

- Organic sulfides are compounds that are formed when sulfur bonds to two organic groups.
- Inorganic sulfides are compounds that contain a negatively-charged sulfide ion.
- Phosphine sulfide compounds

Dissolved Oxygen Monitoring

Application Industries

Portable Water | Waste Water | Pharmaceutical | Food & Beverages | HVAC

Q46D Dissolved Oxygen Monitor

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Q45D Dissolved Oxygen Transmitter

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Dissolved Oxygen is the level of free, non-compound oxygen present in water or other liquids. It is an important parameter in assessing water quality due to its influence on the organisms

Monitoring Dissolved Oxygen and the temperature of the source water can provide early warning for seasonal rise in manganese concentration.

Dissolved Ozone Monitoring

Application Industries

Portable Water | Waste Water | Pharmaceutical | Food & Beverages | HVAC

Q46H/64 Dissolved Ozone Monitor

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Q45H/64 Dissolved Ozone Transmitter

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Dissolved Ozone is a powerful disinfectant gas, commonly dissolved in water treatment for potable, wastewater, pharmaceutical, agricultural, ventilation systems, industrial and leisure to help breakdown organic matter prior to further treatment.

It is exceptionally quick-working, with the oxidisation process taking around 2 seconds.

Filter Backwash solution

Application Industries

Portable Water | Waste Water | Pharmaceutical | Food & Beverages | HVAC

FilterSmart Gravity Filter Backwash Monitor

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Filter Backwash is a form of preventive maintenance so that the filter media can be reused.
Backwash filtration systems remove the need to regularly clean filters, provide information on how clean your water is and help to prevent water loss.

- Filtration systems use both media and backwash filters to collect any particles that flow through your water or enter the water system.
- It helps reverse the flow of water while increasing its velocity.

Fluoride Monitoring

Application Industries

Portable Water | Waste Water | Pharmaceutical | Food & Beverages | HVAC

Q46F Fluoride Monitor

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Q46F/D Direct Fluoride Monitor

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Fluoride is used in the production and treatment of both drinking and industrial waste water, often added to water systems to help reduce dental cavities.

Monitoring the level of Fluoridation in drinking water, along with the success of the removal process in wastewater, is essential to ensure compliance.

Hydrogen Peroxide Monitoring

Application Industries

Portable Water | Waste Water | Pharmaceutical | Food & Beverages | HVAC

Q46/84 Hydrogen Peroxide Monitor

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Q45/84 Hydrogen Peroxide Transmitter

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Hydrogen Peroxide is used within water and chemical treatment processes for disinfection and bleaching applications.

It is typically removed from treated water via Chlorine quenching to protect human health.

Oxidation Reduction Potential (ORP)

Application Industries

Portable Water | Waste Water | Pharmaceutical | Food & Beverages | HVAC

Q46P/R PH & ORP Monitor

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Oxidation Reduction Potential (ORP) is an important method for testing water quality, providing an easy way to understand sanitation levels and cleanliness of water applications.

Q22PX PH / ORP Universal Sensors

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It measures the water's ability to accept or release electrons and is typically used to determine the oxidising or reducing potential of a water sample, indicating possible contamination.

Q45P/R PH & ORP Transmitter

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It is widely used within the water treatment and food processing industries to ensure that water is free of contaminants and safe to recycle or consume

Permanganate Monitoring

Application Industries

Portable Water | Waste Water | Pharmaceutical | Food & Beverages

Q46H/83 Permanganate Monitor

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Permanganate (MnO4) is a strong oxidant used in water treatment to control taste, odours, biological growth and to remove colour, manganese and iron.

- It can be used to control the formation of disinfection by-products by oxidising the organic precursors.
- Monitoring the concentration of Permanganate in real-time ensures accurate and reliable management of water quality.
- In industrial waste treatment, it is used for odour control, toxic pollutant destruction, bio-augmentation, and grease removal.
- Concentrations exceeding pre-determined thresholds helps to identify overdosing, allowing dosing to be adjusted accordingly.

Peracetic Acid Monitoring

Application Industries

Portable Water | Waste Water | Pharmaceutical | Food & Beverages | HVAC

Q46/85 Peracetic Acid Monitor

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Q45/85 Peracetic Acid Transmitter

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Peracetic Acid (PAA) is an extremely strong oxidizer, widely used in the food and beverage industry for the disinfection of pipes, cooling water systems, processing equipment and for the spray washing of food products.

It is an organic compound that is a colourless liquid, characterised by its acrid odour and a very rapid action against all microorganisms.

pH Monitoring

Application Industries

Portable Water | Waste Water | Pharmaceutical | Food & Beverages | HVAC

Q46P/R PH & ORP Monitor

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pH is the value used to measure the acidity and alkalinity of water, with a range between 0 (strong acid) and 14 (strong alkali), with 7 being neutral.

Q22PX PH / ORP Universal Sensors

Request A Quote

- It provides critical information for controlling the drinking water or wastewater treatment process.
- It values can vary as it passes through a network, hence the need for continuous, accurate and reliable monitoring.

Q45P/R PH & ORP Transmitter

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- A very high or very low pH can make water unusable for certain applications.
- It is associated with the water treatment industry, a range of other industries, including the food & beverage, textiles, agriculture, pulp & paper manufacturing.

Residual Sulfite Monitoring

Application Industries

Portable Water | Waste Water | Pharmaceutical | Food & Beverages | HVAC

Q46S/66 Residual Sulfite Monitor

Request A Quote

Residual Sulfite occurs naturally in numerous minerals, and these dissolved minerals contribute to the mineral content of drinking water.

- It can be found in most natural water sources and is one of the major dissolved components of rain.
- It is widely used for the dechlorination of wastewater in many treatment facilities.

With residual chlorine discharge limits often very close to zero, monitoring residual values to comply with regulations has become very difficult and controlling residuals at values between zero and 10 or 20 parts-per-billion is often not achievable.

Suspended Solids Monitoring

Application Industries

Portable Water | Waste Water | Pharmaceutical | Food & Beverages | HVAC

Q46/88 Suspended Solids Monitor

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Suspended Solids refers to small solid particles that remain in suspension in water. The measurement of suspended solids is one way of gauging water quality.

- It is simply a density measurement used to describe exactly how much waste sludge and particles are in the water.
- It provides industry-leading, reliable and accurate real-time monitoring of suspended solids for a variety of water and wastewater applications.

It can be made up of both organic material and inorganic material depending on the location, and while high levels can occur naturally in some streams and bodies of water, generally a lower measurement is best for healthy water.

Turbidity Monitoring

Application Industries

Portable Water | Waste Water | Pharmaceutical | Food & Beverages | HVAC

Q46/76 Turbidity Monitor

Request A Quote

NephNet Portable, Online Turbidity Monitor

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Turbidity is the measurement of optical clarity of water and is defined as the amount of light scattered from particles in solution.

- It is is the measurement of water clarity.
- It contain pollutants, such as phosphorus, pesticides, or heavy metals.

UV254 Monitoring

Application Industries

Portable Water | Waste Water | Pharmaceutical

Q46 UV Monitor

Request A Quote

UV254 is a water quality test parameter that provides a measurement of the organic matter present in water and wastewater.

It measurements are a practical indicator of dissolved organic compounds in water and is a useful indicator of organic carbon content, providing operators with real-time information on contaminant levels.

Other Monitoring

Application Industries

Portable Water | Waste Water | Pharmaceutical | Food & Beverages | HVAC

MetriNet Multi Parameter Smart Water Quality Solutions

Request A Quote

Key Features

- Kiwa approved
- Smart m-node complete digital sensors and transmitters housed in miniaturised bodies
- Measures up to 16 parameters
- Bespoke options
- Street-Level and fully submersible options available
- Ultra low powered, modular solution for monitoring water quality and collecting data

Parameters

Chlorine | Chlorine Dioxide | Conductivity | Dissolved Ozone | Fluoride | Nitrite | ORP | pH | Pressure | Turbidity

SiteBox Portable Monitoring & Control System

Request A Quote

Key Benefits

- Fully Independent, Portable, Smart Monitoring, Control And Policing System
- Modular Solution For Monitoring Water Quality And Collecting Data
- Delivery To Start Up In Minutes & Receiving Live Data Within An Hour
- Ultra-Low, Battery Powered Smart, Digital, M-Node Sensors
-

Parameters

Chlorine | Chlorine Dioxide | Conductivity | Dissolved Ozone | Fluoride | Dissolved Oxygen | Nitrite | ORP | pH | Pressure | Turbidity

Key Benefits

- Measures and records water quality data in a variety of operating environments.
- Ideal for short-term recording of parameters such as free chlorine and ph.
- Free chlorine, combined chlorine, dissolved ozone, and residual chlorine dioxide systems are supplied with a “sensor keeper” to maintain sensor polarization continuous monitoring for up to 30 days

Parameters

Chlorine | Chlorine Dioxide | Conductivity | Dissolved Ozone | Dissolved Oxygen | Hydrogen peroxide | pH

Request A Quote

View Other Products

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Didn't find what you were looking for? Contact us, we'll be happy to answer any questions you may have and help you with your business needs.

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