



BRIX

ONLINE WATER QUALITY ANALYZERS

AXIS

AXIS SOLUTIONS LIMITED

Axis at Glance



Dr. Bijal Sanghvi

Managing Director

“Since 1999, with a vision to provide efficient, reliable, and sustainable solutions for increasingly complex industrial environments, Axis Solutions Limited emerge as a world-class system integrator & innovative solutions provider to cater to petrochemicals, refineries, power plants, cement plant, steel plant & other engineering verticals globally through our worldwide regional offices by the team of 210+ that drives Axis passionately in our facilities with engineering, manufacturing, testing, research and development to provide solutions in Analytical specifically for gas, water, hydrocarbon measurement, thermal management, pressure - regulation, industrial automation, IIoT & Industry 4.0.”

Our Journey

1999 Onwards



(*) WATER BOARD APPROVAL

1. Gujarat Water Supply & Sewerage Board (GWSSB)
2. Gujarat Urban Development Company Ltd (GUDC)
3. UP Jal Nigam
4. Maharashtra Jeevan Pradhikaran (MJP)
5. Delhi Jal Board (DJB)
6. Orissa Water Supply & Sewerage Board (OWSSB)

Why Us ?

The Dilemma

When it comes to water quality, precision matters. But in real-world operations, choosing the right online analyzer isn't always easy. Variations in process conditions, complex water compositions, and stringent regulatory norms create confusion. The result? Wrong selection, frequent breakdowns, or inconsistent data.

Ensuring reliable, real-time insights starts with the right technology, engineered to perform without compromise.

Solutions

- From basic readings to real-time intelligence
- From manual sampling to continuous, unmanned monitoring
- From reactive maintenance to predictive performance

Axis delivers comprehensive analyzer solutions for today's water and wastewater challenges. As an experienced analytical systems integrator, we provide not just instruments; but engineered ecosystems that bring reliability, accuracy, and compliance together.

With successful deployments across water treatment, effluent, and process industries, Axis ensures you stay ahead - from source to discharge.

Applications



Oil & Gas



Refineries



Food & Beverages



Effluent Treatment Plant



Jal Jeevan Mission



Petrochemical



Pharmaceutical



Power plants



Sewage Treatment Plant



Amrut Project



Chemical



Process Industry



Water Treatment Plant



Waste Water Treatment Plant

24x7 Water Supply Project



Multiparameter Controller

- For Smart Probes & Sensors



- › Use with Smart Sensors for measurements of COD, BOD, TSS, pH, Ammonia, Turbidity, Colour, and application dependent
- › Widescreen color graphical display and touch screen
- › Available with PROFIBUS™ PA, FOUNDATION™ Fieldbus™, or HART™ communications
- › Plug-and-play sensor and communication modules minimize stock holding and maximize operation uptime

Smart Controller

- Single/Dual Parameter Controller



- › The low-power, high-performance transmitter for use in safe area applications
- › Common universal design for pH, ORP, conductivity, Turbidity, and Chlorine sensors
- › Available with HART™ communication
- › Multi-level security access prevents unauthorized modifications to transmitter configuration and calibration

Automatic Chlorine Dosing System



- › Fully Automatic Dosing System with redundant pump (1W + 1S)
- › Operating through Chlorine / ORP sensor
- › Automatic diagnostic future like empty tank detection, pump speed, dosing speed Etc. with Auto control indication panel
- › Output: 4-20 mA Analog + RS485 Digital output

Applications

- › Oil & Gas
- › Petrochemical
- › Chemical
- › Power Plants
- › Water Treatment (ETP-STP-WTP)

Partnered with
BRIXX

Smart UV-VIS Probe

- COD, BOD & TSS Sensor



- › Measuring principle: UV-Vis spectrometry over the total range (190-750 nm)
- › Multiparameter probe with 1 mm, 2 mm & 5 mm optical path length, ideal for wastewater, surface-water, and drinking water
- › 316L Stainless steel housing compatible with water with high salinity
- › Fully integrated with Automatic Air pressure cleaning

Smart ABAM

- Ammonium / Nitrate Sensor



- › Measuring principle: Ion selective electrode
- › Optional for both Ammonium & Nitrate measuring at the same time
- › Removable electrode guard for easy maintenance
- › Automatic temperature, potassium & pH compensation possible

Smart ABTS

- Turbidity / Suspended Solids Sensor



- › Measuring principle: Optical Sensor Near-infrared LED (880nm/850nm) and 90° scattered light method under ISO 1027/EN 27027
- › Robust & Waterproof (IP68) Digital sensor
- › Factory pre-calibration for easy setup and field calibration for more accuracy

Smart ABCL

- Chlorine Sensor

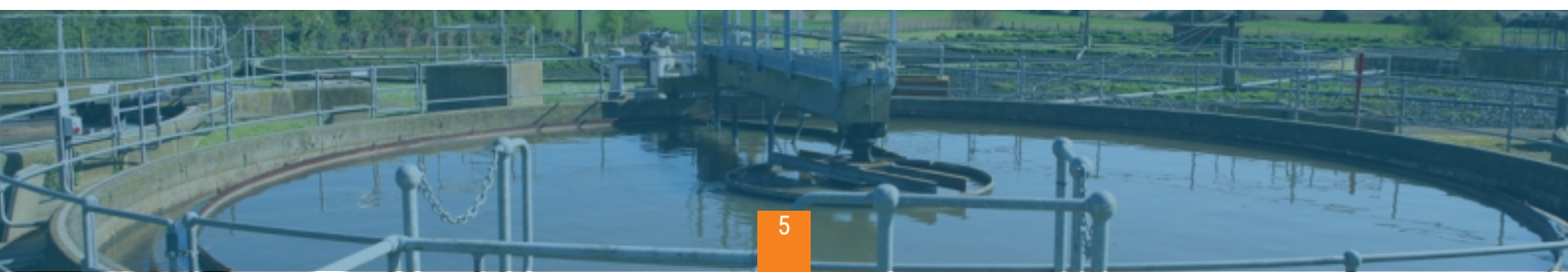


- › Measuring principle: Amperometric method using rotating electrode
- › IP65 Dust and Water Proof Structure
- › In-built Temperature and pH Compensation
- › Factory pre-calibration for easy setup and field calibration for more accuracy

Applications

- › Oil & Gas
- › Chemical
- › Petrochemical
- › Power Plants
- › Water Treatment (ETP-STP-WTP)

Partnered with
BRIX



Smart ABpH

- pH / ORP Sensor



- › Measuring principle: The electrochemical ion selective method
- › 1-sec Online Realtime Measurement In-built
- › Temperature Compensation
- › Robust & waterproof (IP68)

Smart ABCS

- Conductivity / Salinity Sensor



- › Measuring principle: Conductivity sensor with 2 or 4 electrodes
- › Temperature Compensation
- › Robust & Waterproof (IP68)
- › Factory pre-calibration for easy setup and field calibration for more accuracy

Smart ABDO

- Dissolved Oxygen Sensor



- › Measuring principle: Fluorophore impregnated membrane optical sensor, dynamic luminescence quenching technique
- › 316 Stainless steel housing compatible with water with high salinity
- › An accurate measure in all situations especially in the medium with very low oxygen concentrations

Smart ABOW

- Oil in Water Sensor



- › Measuring principle: Light Source: Xenon flash lamp + filter(254nm) Detector: Photo diode + filter (360nm)
- › An automated mechanical wiper is available for Surface cleaning & air bubble removal
- › Robust & Waterproof (IP68) Digital sensor

Applications

- › Oil & Gas
- › Chemical
- › Petrochemical
- › Power Plants
- › Water Treatment (ETP-STP-WTP)

Partnered with
BRIX

Online Water Analyzer

- Multi-Channel Measurement system



- › The System with Smart Sensors and a controller for measurements of Turbidity, Chlorine, pH, Conductivity, and application dependent
- › Direct sampling from the process
- › Self Standing- wall mounting options
- › Ease of Installation
- › Flow Cell design for sensor mounting

SWAS - Single/Multi-Stream

- Steam and Water Analyzer Systems

- › Compact Design
- › Efficient cooler design
- › Ease of Installation
- › Sampling system as per ASME PTC Standard
- › Open Rack type / Walk Through panel / Inside Shelter
- › Online analysis with Grab Sampling

Measurement

- | | |
|----------------------------|-------------------------|
| › pH / ORP | › Sodium |
| › SC, CC, CD | › Phosphate |
| › Dissolved O ₂ | › Hydrazine |
| › Chlorine | › Hydrocarbons in Water |
| › Silica | › Oil in Water |



Applications

- | | | |
|-----------------|----------------|---------------------------------|
| › Oil & Gas | › Chemical | › Water Treatment (ETP-STP-WTP) |
| › Petrochemical | › Power Plants | |

Partnered with
BRIX



Silica Analyzer



- › Silica concentrations using a Heteropoly-molybdenum blue colorimetric method
- › The range of measurement is between 0 to 5000 ppb or µg/L
- › The Analyzer is capable of auto-ranging & calibration
- › The Analyzer is capable of grab sample analysis
- › Low reagent consumption
- › Compact size - capable of being panel-or wall-mounted.

- › Superior stability using ROSS Ultra electrode technology for high performance and accuracy
- › Ultra low-level detection to 0.001 ppb for trace detection in high purity water and steam generation
- › Fastest and most stable measurements
- › Compact size - capable of being panel-or wall-mounted.

Sodium Analyzer



- › Ion-Selective Electrode method
- › Long-life sensor technology for stability and high performance
- › Simple operation and minimal maintenance required - no moving parts
- › Fast and accurate calibration to get you back online in minutes

Hardness Analyzer



- › Ion-Selective Electrode method
- › Long-life sensor technology for stability and high performance
- › Simple operation and minimal maintenance required - no moving parts
- › Fast and accurate calibration to get you back online in minutes

Applications

- | | | |
|--------------------|------------------------------|-----------------------------|
| › Softener plant | › Drinking Water / Raw Water | › Blending |
| › Demineralizer | › Demineralized Water / RO | › Ground Water |
| › Boiler Feedwater | › Steam Condensate / CDP | › Ultra Pure Water Analysis |

Partnered with

Thermo
SCIENTIFIC



Hydrazine Analyzer



- › Continuous online measurement ensures real time information
- › Accurate and precise oxygen scavenger control
- › Easy to operate and calibrate
- › Drift-free measurements with minimal maintenance
- › User selectable calibration modes

- › EPA method for fluoride analysis using an ion-selective electrode (ISE)
- › Long-life sensor technology offers stability and high performance
- › Fastest and most stable measurements
- › Correlate to online IC for QA/QC validation
- › Minimize operator time and maintenance

Fluoride Analyzer



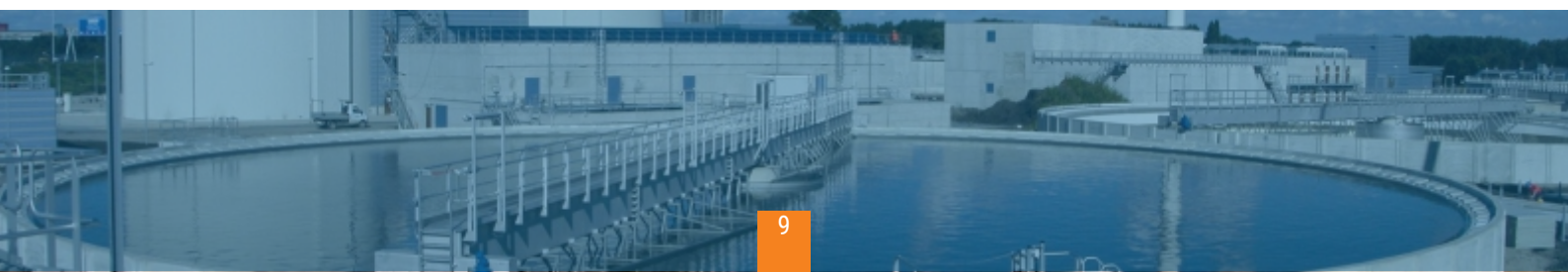
Online TOC Analyzer



- › Proven thermal oxidation principle
- › Highest combustion temperature available (1,200°C)
- › No filtration necessary
- › Response Time TOC: 1-2 minutes
- › Multi-stream measurements (optional)
- › Robotic Injection System
- › Fast process control possible

Applications

- | | | |
|--------------------|----------------------------|---|
| › Municipal Sewage | › Industrial Wastewater | › Rugged Industrial Environments |
| › Surface Water | › Fluorination Control | › High Purity Applications to Wastewater Effluent |
| › Drinking Water | › Fluoride Level Analyzing | › Process Optimization and Control Applications |



pH Sensors



- › Developed and optimized for a wide range of applications
- › The Precise measurement under difficult conditions (low conductivity, contaminations) With Analog and Memosense Technology
- › pH glass with high impedance for high-temperature applications up to 135° C, low alkali error
- › Perfect galvanic isolation with Memosens technology FDA-certified materials
- › The Operation also in hazardous locations

Conductivity Sensors

- › The measurement range starts with 0.055 $\mu\text{S}/\text{cm}$ for ultrapure water and goes to over 1,000 mS/cm for fully dissociated acids or bases With Analog and Memosense Technology
- › Integrated temperature detector
- › Suitable with high-temperature application up to 210° C.
- › FDA-certified materials
- › The operation also in hazardous locations



Oxygen Sensors



- › High resolution of low oxygen concentrations sensors
- › Very simple calibration in the air without calibration gases low cross-sensitivity to CO_2
- › Suitable with high-temperature application up to 85° C
- › FDA-certified materials
- › The operation also in hazardous locations

Applications

- | | | |
|----------------------------|----------------------|-------------------------------------|
| › Surface & Drinking water | › Food and Beverages | › Water for Injection |
| › Pharmaceutical | › Ultrapure water | › Chemical (Heavily polluted Media) |

Partnered with

Knick 

Transmitter



- › 2 & 4wire analyzers for pH/ORP, conductivity, or oxygen Sensors
- › Operate with analog, digital and Memosens sensors
- › Automatic sensor identification
- › High-contrast widescreen display with colored backlighting
- › Universal broad-range power supply 24.. 230 V AC/DC
- › Rugged design, with IP65 protection and UV
- › Resistance With HART and PROFIBUS Communication
- › Operation in Hazardous and Safe areas

Portable Analyzer

- › Multi-parameter versions for pH, conductivity, and oxygen measurement
- › Ergonomically optimized for on-site and laboratory use
- › Plug & Measure-Sensor replacement in seconds with pre-calibrated sensors
- › Up to 5,000 values can be recorded using the integrated data logger
- › Reliable measurements, even in the toughest conditions
- › Over 1,000 operating hours with a single set of batteries



Automatic pH System



- › pH System with Automatic Insertion and retraction of the pH sensor together with automatic cleaning and calibration
- › Pulpy media, high level of abrasive solids content, Fertilizer, ore production, hard slurries, highly chemical media which make toughest demand of this system
- › Reduced maintenance effort due to automatic calibration
- › Longer sensor life due to short-time measurement and regular cleaning
- › Automatic 2-point pH Calibration
- › No interruptions in production for calibration

Applications

- | | | |
|----------------------------|----------------------|-------------------------------------|
| › Surface & Drinking water | › Food and Beverages | › Water for Injection |
| › Pharmaceutical | › Ultrapure water | › Chemical (Heavily polluted Media) |

Partnered with

Knick ➤



We Think Globally
And Act Locally

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Manufacturing Units

Manufacturing Unit - 1

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Manufacturing Unit - 3

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