

Aztec 600 colorimetric range Water Quality Analyzers

Influencing your potable water monitoring applications



ABB Instrumentation



ABB and Aztec

A history of providing complete confidence in water monitoring



Today's global water industry faces huge challenges. With demand rising, is there enough high quality water in the network to meet world needs?

Legislation and regulation continue to add layers of complexity and compliance. And then there are the pressures on supply. Can customers rely on efficient, sustainable supply wherever and whenever it's needed?

The environment continues to gain in both importance and gravity. Water supply companies are under ever more stringent scrutiny on process optimization, output and the use of chemicals and energy.

So, in the face of the day-to-day drivers for increased efficiency, maximum output, world-class quality and improved controls, ABB's Aztec range of analytical instrumentation has been designed to face these challenges.

Aztec water analyzers are more than superb design, technological excellence and reliable measurement. This powerful combination of ABB's global analytical instrumentation leadership and Aztec's unique fluid handling system provides an instrument that you can rely on and trust.

Designed with the operator in mind, the Aztec range of compact analyzers provide all the advanced features that a water treatment plant requires, but are simple to install, operate and maintain.



Listening to what the market is telling us

Today, health, safety, environment and legislation focus on each element of the water quality process, and we're confident the Aztec series will meet every process and productivity requirement. Our remarkable history of innovative design and technology puts these latest on-line process analyzers at the head of the field.

- Automatic 2-point calibration
- Multiple sample measurement
- Self-cleaning optical path
- Self-diagnostics and data logging
- Powerful on-board graphical trending for measured readings output
- Modular design
- Flexible communications

ABB and Aztec –
A history of innovation
in water analyzers



A positive influence on potable water industry applications



Intuitive navigation with softkeys

Measurement of up to 3 sample streams

Temperature controlled measurement head

Ethernet ready

Compact enclosure for ease of installation

ABB's new Aztec range of water monitoring instrumentation has been specifically created to provide the water supply industry with advanced analysis to deal with significant challenges in potable water demand.

In the ABB Aztec 600 colorimetric range, we combine Aztec's proven and patented 'wet technology' with the advanced electronic platform of ABB's ScreenMaster data recorders.

The result is a range of powerful, compact, yet reliable on-line colorimetric analyzers for the key parameters in water treatment and with the capability to measure up to three sample streams.

Simple to Operate

A key benefit of the Aztec 600 is its ease of operation. Front-mounted pushbuttons allow easy device interaction in a familiar Windows™ environment. Common operation and commissioning across the Aztec 600 range is straightforward, with menus presenting options for setting and fine-tuning parameters. Added support is provided by an extensive context-sensitive on-line help feature.

Based on ABB's successful common operator interface, the Aztec 600 colorimetric analyzers feature a full color graphical display, allowing process trends to be easily viewed and analyzed locally. Historical logs provide operators with access to alarm and audit trail data. Process data and historical logs are securely archived to a removable SD card.

Notification of important events, or current measurement status, can be e-mailed directly to multiple recipients using the Aztec 600 built-in SMTP client, through the on-board ethernet communications link.



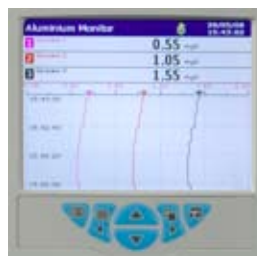
Graphical User Interface

- Simple 6 button operation with scroll down menus
- Graphical trending, analysis and diagnostic displays
- User/operator password security



Flexible Communications

- Email notification of important events
- Ethernet connection for integration into local network
- Optional Profibus® DP V1.0



Reliable Data

- Automated 2-point validation
- Automatic background sample color correction
- Proven and established chemical methods used



Simple to Maintain

The Aztec 600 colorimetric range is designed to be as maintenance-free as possible. Each unit utilizes a single, precisely controlled piston pump to handle all sample and reagent fluids used for measurement, mixing and disposal. This design reduces the amount of maintenance required for external cleaning of sample lines, changing reagents and annual servicing.

Additionally, due to the modular design of the Aztec 600 colorimetric analyzers, operators can enjoy the benefits of common spares, consumables and maintenance procedures across the whole range.

Reliable Measurement

Built for reliability, the Aztec 600 colorimetric analyzers feature automatic two point calibration. This enables operators to verify analyzer performance against the standards of a known concentration.

Accuracy is further enhanced by various self-cleaning abilities to ensure that the optical cell and analyzer tubing used for sample measurements remain free of residual particles between each analysis. A patented mechanical cleaning function uses the piston movement to wipe the optical cell with every measurement. This is particularly important when measuring raw waters where optical contamination can be a real issue.

To compensate for background color and turbidity, measurements are taken before and after color reagents are added. These measurements are compared against the calibrated values to calculate the sample being measured.

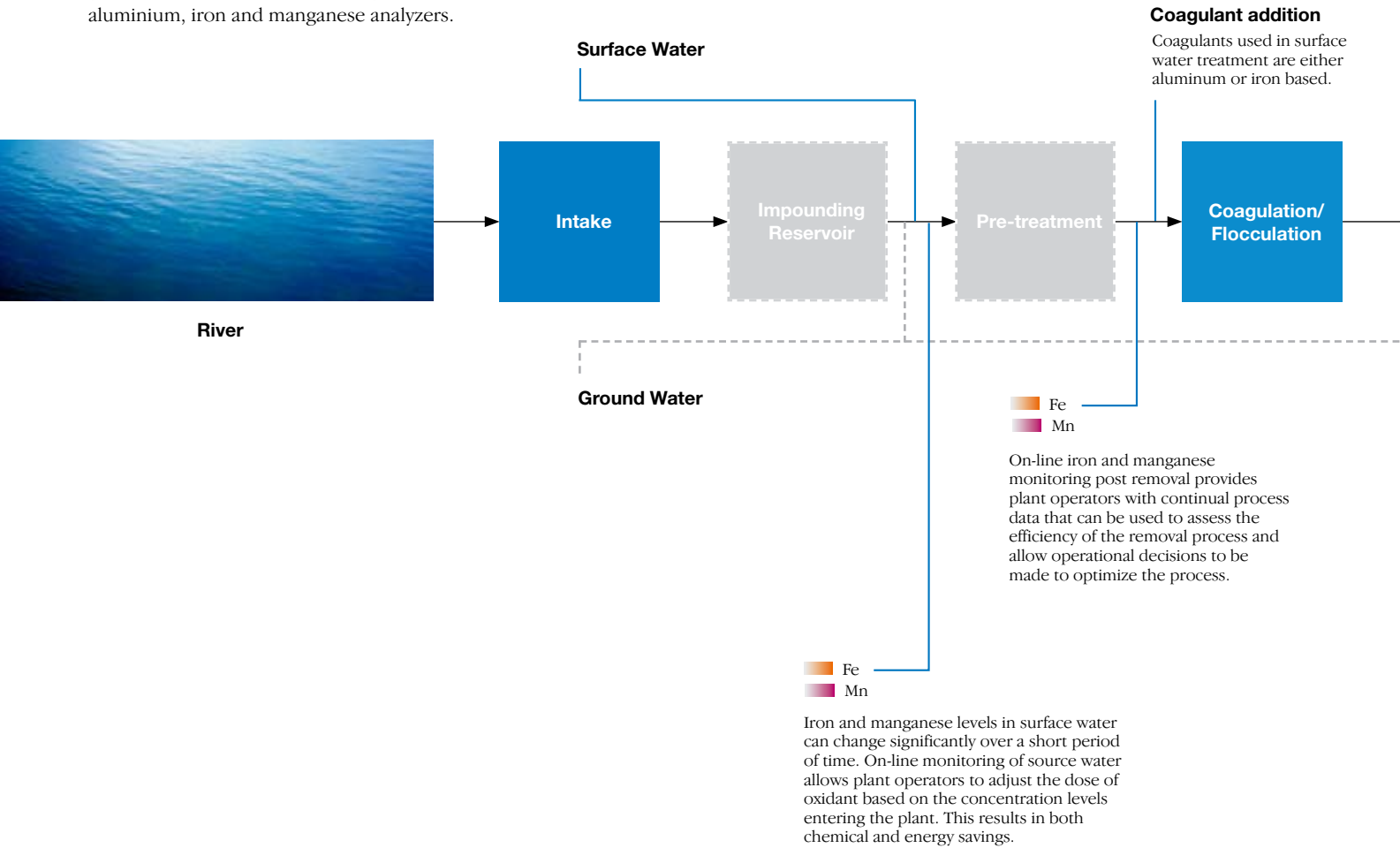
To maximize the measuring range, Aztec 600 features automatic sample dilution. This setting allows the instrument to automatically adjust to monitor higher levels of samples by using de-ionised water to dilute the sample.

The Aztec influence starts here

ABB is your partner throughout the entire water cycle, from water quality analysis to extraction and treatment. The Aztec 600 Aluminum, Iron and Manganese Analyzers play a critical part in potable water processing.

Monitoring Aluminum, Iron and Manganese in Potable Water Treatment

The diagram outlines a typical water treatment process, showing the measuring points for Aztec 600 aluminium, iron and manganese analyzers.

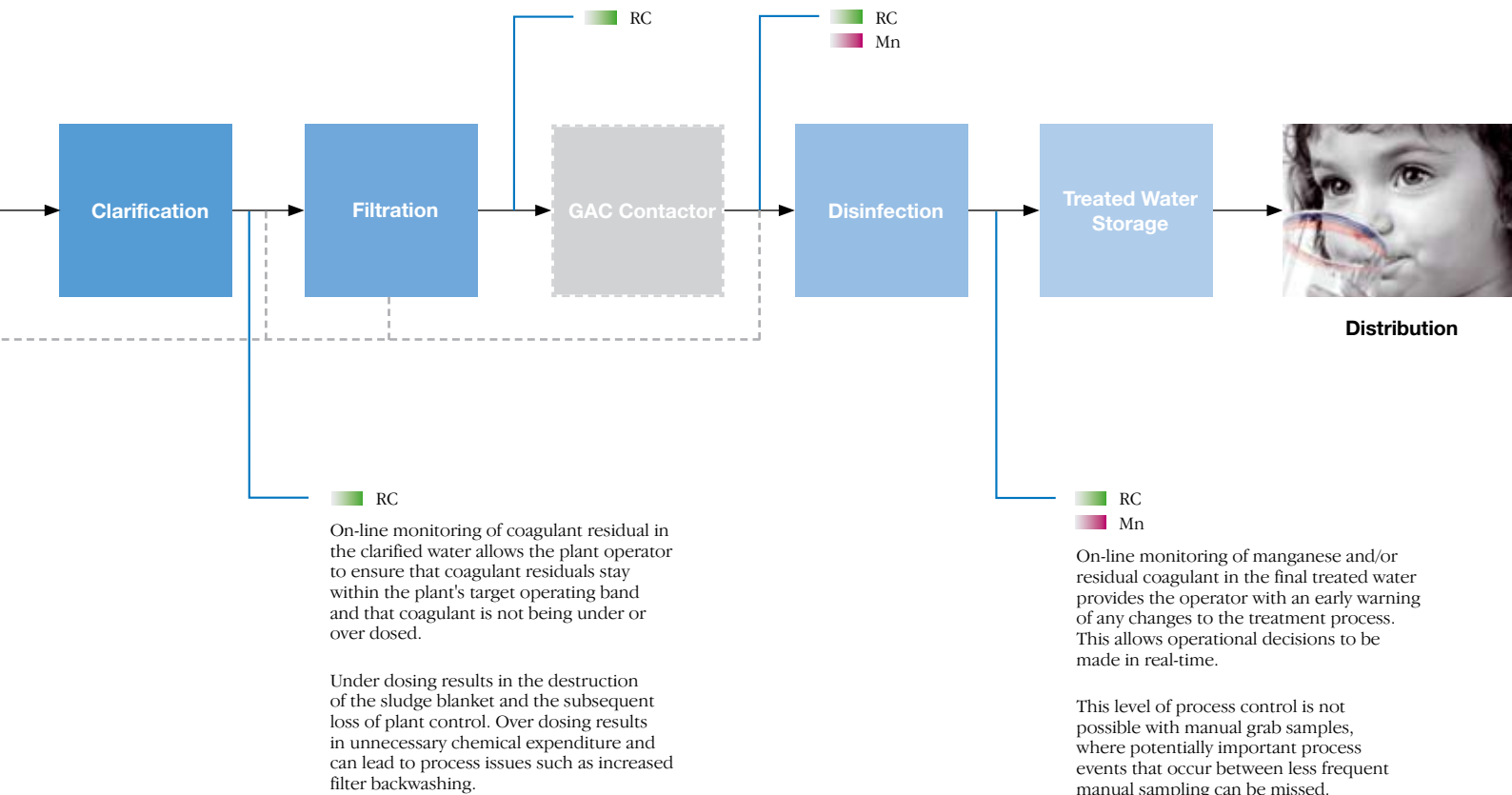


- AZTEC 600 MONITORING POINTS**
- Iron (Natural) - Fe
 - Manganese - Mn
 - Residual Coagulant (Aluminum/Iron) - RC

Instrumentation Services

Our broad scope of services lay the foundation for end-to-end support for your enterprise. ABB Instrumentation Services deliver the knowledge and global experience required to keep your assets operating at peak reliability and accuracy. ABB provides a full range of services from start-up and commissioning through lifecycle support.

- Installation and Commissioning
- Preventative Services
- Calibration Services
- Maintenance
- Consulting
- Training
- Migration/Upgrades
- Parts and Repair



Aztec –
Enjoy the influence!

ABB is a leader in power and automation technologies that enable utility and industry customers to improve performance while lowering environmental impact. The ABB Group of companies operates in around 100 countries and employs about 115,000 people.

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