ABB MEASUREMENT & ANALYTICS

OPEN UP A NEW WORLD OF WATER ANALYSIS

ABB's range of digital water transmitters



ENGINEERED
TO OUTRUN

ACCURATE WATER QUALITY MEASUREMENT MADE EASY

Open up your way to a new world of water analysis

Stringent legislation around municipal and industrial water quality makes it essential to know how your water measures up against regulatory requirements, while optimizing your process performance calls for efficient water usage and treatment.



Versatile transmitters that work the way you work

Our analytical measurement systems combine the latest advances in intelligent sensor diagnostics and management with ABB's intuitive HMI operation and modular design philosophy. Robust, proven and dependable, our devices offer a choice of industry standard communications protocols, plus a full range of approvals.

Highly flexible, they can be quickly and easily deployed in a range of industries including:

- **Chemical and petrochemical**
- **Metals and mining**
- **Water and wastewater**
- **Pulp and paper**
- **Petroleum refining**
- **Marine**

Our transmitters at a glance...







	AWT210	AWT420	AWT424
Transmitter Type	2-wire	4-wire	4-wire
Number of Inputs	1	1 or 2	1, 2, 3, or 4
Measurement Types	Conductivity, pH/ORP	Multi	Multi
Hazardous Area Certification	Intrinsic Safety & Non-incendive	Non-incendive	Non-incendive

EZLink™ – accurate measurement is just minutes away

Imagine if you could install your sensor and transmitter in minutes, with none of the time or hassle associated with wiring, set-up and configuration. With our EZLink plug-and-play technology you can. With EZLink, getting up and running is just a matter of connecting your ABB sensor to one of our digital transmitters.

Connect and measure digital sensor connection
Connect and measure technology makes it easy to connect and configure the transmitter with any of our digital sensors, offering flexible measurement with minimal set-up time.



Factory calibrated
Factory calibration means your transmitter is accurate and ready to go as soon as it is out of the box.

Automatic sensor recognition and set-up
Automatic sensor recognition enables sensors and transmitters to be matched up quickly, with no wiring or fine-tuning required.

Advanced predictive maintenance diagnostics
Advanced self-diagnostics conforming to NAMUR NE 107 provide clear and simple indication of device status.

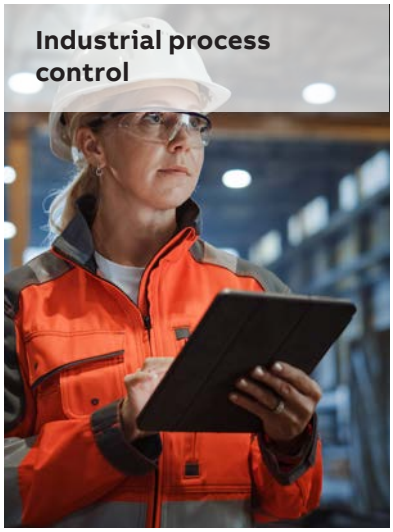
Enhanced measurement accuracy
Electrical noise interference is minimized, ensuring maximum signal strength for enhanced accuracy.

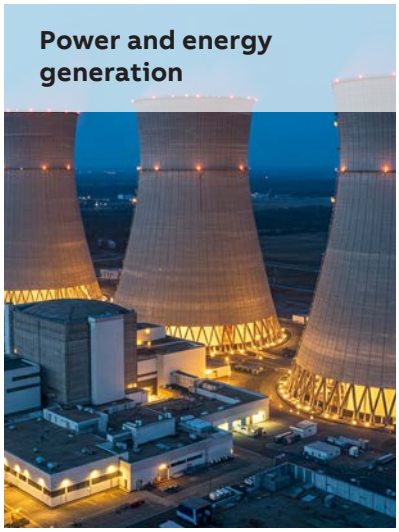
AWT420 AND AWT424 TRANSMITTERS

Versatile design, maximum usability

The AWT420 Dual-input and AWT424 Multi-input four-wire transmitters, offer true flexibility for measuring a wide variety of parameters in a single device, including pH/ORP, conductivity, turbidity, chlorine and dissolved oxygen.







Multi-channel measurement and control

- Customizable via fully plug-and-play models
- Mix-and-match analog and EZLink digital sensors
- Integrated dual channel PID control for direct or reverse acting control or dual acid/base control (pH only)

Easy access to your data

- ABB common HMI enables intuitive operation
- One-button sensor calibration saves time and money on routine maintenance
- HART®, PROFIBUS®, Modbus RTU®, Modbus TCP® and Ethernet
- Real-time data archiving to SD memory card



Bluetooth is a registered trademark of Bluetooth SIG, Inc.

HART is a registered trademark of the FieldComm Group.

Modbus is a registered trademark of Schneider Electric USA Inc.

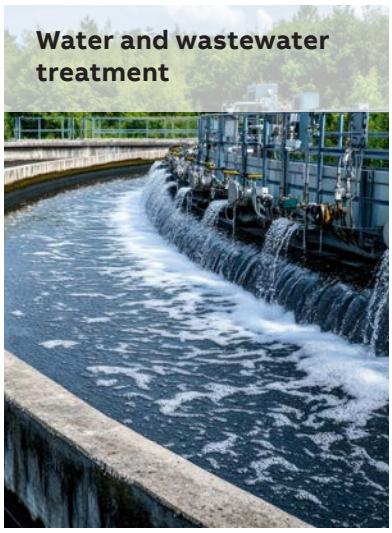
PROFIBUS is a registered trademark of PROFIBUS organization.

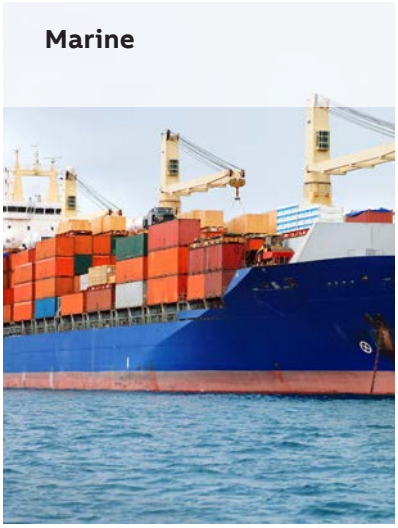


EZLink Connect App
- Easy and secure access to measurement, diagnostic and audit data
- Access transmitter software updates and sensor information through your smartphone



Dynamic QR Code
- Automatic report generation of detailed device and diagnostic data
- Invaluable time saving tool when troubleshooting







Simple and secure operation
- Multi-level security access prevents unauthorized configuration or calibration changes

Flexible installation
- Wall-, pipe- or panel-mount options
- Available in polycarbonate or aluminium versions
- Corrosion resistant polycarbonate or durable aluminum enclosure options

Enhanced safety
- cULus and ATEX IECEx Non Incendive approvals for hazardous area installation

AWT210 SINGLE CHANNEL TRANSMITTER

Low power, high performance

The AWT210 offers a reliable and durable transmitter for the measurement and control of pH, ORP or conductivity in hazardous and non-hazardous areas.

The advanced transmitter that's easy to use
The AWT210 offers the power of advanced digital communications in a simple, flexible design, enabling you to get up and running quickly.

The true fit-anywhere single channel transmitter
With the AWT210, you get the convenience of a single standard device that can be installed almost anywhere. Its wall-, panel- or pipe-mounting fittings, plus an intrinsically safe, non-incendive design for hazardous areas, enable it to be quickly fitted without the need for extensive modifications.





Intrinsically safe
- Intrinsically-safe, non-incendive design for hazardous areas
- USFMc and ATEX/IECEx approved

FOUNDATION Fieldbus is a registered trademark of the FieldComm Group.

Flexible scalability with the future built-in

With the AWT210 you get a truly adaptable transmitter that can be quickly and easily modified as your needs change. Its modular design allows the same unit to be used with any of the available or future sensor and communication modules, minimising stock holding while maximizing operational uptime.

Modules can be removed easily, swapped and locked back into place, enabling fast and simple upgrades in the field.



Advanced diagnostics
- Advanced self-diagnostics conforming to NAMUR NE 107

One button calibration
- One-button sensor calibration saves time and money on routine maintenance

Easy to integrate
- Choice of HART, PROFIBUS and FOUNDATION™ Fieldbus communications







Optimum plant availability
- Transmitters can be quickly and easily upgraded in the field
- Choice of sensor and communications module options

Fit anywhere
- Choose from wall-, pipe- or panel-mount options
- Available in polycarbonate or aluminium versions

Reduced cost of ownership
- Common universal design for pH, ORP or conductivity measurement
- ABB common HMI enables easy, intuitive operation
- Easy set-up menus for quick and easy installation and commissioning
- Interchangeable modules for easy upgrading

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ABB Measurement & Analytics
For your local ABB contact, visit:
www.abb.com/contacts

www.abb.com/wateranalysis

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