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New analytical transmitter offers flexible solution with the future built in

Analytical transmitter with plug-and-play technology offers cost-effective and future-proof solution for industrial pH and conductivity measurement.

ABB has taken an innovative approach to transmitter design with its new AWT210 single-channel two-wire transmitter for measurement and control of pH, redox (ORP) and conductivity in hazardous and non-hazardous industrial applications. The modular design reduces process downtime and overall operations expenditure while improving safety and boosting performance by optimizing plant control and availability.

The low power high-performance transmitter is built around single sensor interchangeable modular plug-and-play technology. This means that a major benefit of the AWT210's modular design is its ability to handle future sensor technologies such as ABB's digital EZLink sensors. By simply upgrading the transmitter with the necessary module, operators can avoid the cost and time of purchasing and installing new transmitter units.

Operational simplicity is at the heart of the AWT210. Based on ABB's common intuitive HMI, users can easily navigate the device. Easy setup menus provide step-by-step guidance and routine calibration tasks can be initiated at a touch of a button.

The AWT210 pH and conductivity systems ensure optimal safe performance in the harshest of applications. This combined with greater user flexibility and environmental compliance make them ideal for the oil and gas, pulp and paper, metals and mining and chemical and petrochemical industries.

The highly flexible transmitter design enables the same unit to be used with pH, redox (ORP) and ion-selective sensors as well as two- and four-electrode and toroidal conductivity sensors. Factory-calibrated modules for the different sensor types can be quickly fitted and exchanged when required via the transmitter's hinged door, enabling fast and easy upgrading and maintenance in the field.

This same approach applies when integrating the AWT210 into different control systems, equipped with a range of exchangeable modules available for 4-20mA with HART®, FOUNDATION Fieldbus® and Profibus PA® communications protocols.

With its range of wall, pipe and panel mounting options and IP66 rated enclosure, the AWT210 can be installed almost anywhere in an industrial process with both intrinsically safe and non-incendive versions for hazardous area installation certified by USFMc and ATEX/IECEX.

To prevent unauthorized modifications to calibration and configuration settings, multi-level security access ensures that users can only perform tasks within their specific profiles, with a choice of read-only, calibrate and advanced security access levels.



AWT210 2-wire transmitter to reach new standards in pH, ORP and conductivity measurement

ABB (ABN: SIX Swiss Ex) is a pioneering technology leader with a comprehensive offering for digital industries. With a history of innovation spanning more than 130 years, ABB is today a leader in digital industries with four customer-focused, globally leading businesses: Electrification, Industrial Automation, Motion, and Robotics & Discrete Automation, supported by its common ABB Ability™ digital platform. ABB's market leading Power Grids business will be divested to Hitachi in 2020. ABB operates in more than 100 countries with about 147,000 employees. www.abb.com

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