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ABB's new ultrasonic level transmitter is ultrastable, intelligence driven, user-friendly and reduces costs

ABB has just launched a new feature-rich ultrasonic level transmitter designed specifically for industries with large installed bases of level measurement devices, particularly water and wastewater treatment. With its modular design and intelligent algorithms, the LST200 is easy to install, commission and maintain and stable in use, decreasing total expenditure over the product's lifetime.

Commissioning the LST200 is easy thanks to a set-up menu that guides customers through configuration within one minute. Operating the device is easy because the LST200 has a blue backlight that makes it highly visible even in strong sunlight or darkness in locations such as lagoons and settling ponds. Maintaining the device is easy because it offers real-time echo waveform and diagnostic messaging for efficient troubleshooting.

High stability is achieved by a sophisticated algorithm that enables the LST200 to detect and automatically compensate for any instability in the strength of the ultrasonic signal. This makes the LST200 a good choice in process basins for aeration, chlorine contact, skimmer tanks, sedimentation and flotation thickeners where there can be unstable surface echo from foam or turbulence.

An intelligent algorithm with noise filtering makes the LST200 useful in wet wells, lift stations and pumping stations because it is immune to noise from heavy equipment such as variable speed drives. Temperature compensation is another key feature, with the LST200 offering reliable accuracy that is better than $\pm 3\text{mm}$ or 0.25% of full span.

Submersible in water, the LST200 can survive flooding. It has a waterproof rating of IP68 relevant for the water and wastewater industries. A non-contact instrument made from polycarbonate, it is resistant to process liquids such as mild acid and base, chloride and oxidizer, making the routine work for cleaning unnecessary. For open channel flow measurement, built-in equations and supporting software prevents the need for any manual calculations, saving the user time and effort.

Jack Wang, Global Product Manager for Ultrasonic Level Transmitters at ABB, says: "LST200 will be useful in many industrial settings, particularly the water and wastewater sector or the power and pulp and paper industry where potential applications include water storage measurement. Thanks to its modular design, user-friendly interface and built-in intelligence, it meets our customers' key requirements for ease and reliability when they are considering total expenditure on the device from purchasing, to installation and maintenance."



ABB (ABBN: SIX Swiss Ex) is a technology leader that is driving the digital transformation of industries. With a history of innovation spanning more than 130 years, ABB has four, customer-focused, globally leading businesses: Electrification, Industrial Automation, Motion, and Robotics & Discrete Automation, supported by the ABB Ability™ digital platform. ABB's Power Grids business will be divested to Hitachi in 2020. ABB operates in more than 100 countries with about 144,000 employees. www.abb.com

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