ABB unveils compact ultrasonic level transmitter for liquid level measurement

LST300 is the most powerful ultrasonic level sensor in a compact form

ABB’s Measurement & Analytics business announces the LST300 ultrasonic level transmitter, an intelligent, compact level instrument with application in a wide range of industries. LST300 represents the future of level measurement. Today’s plants demand low power, easy to use instruments that deliver great performance even in difficult conditions. Intelligent compact transmitters have always been attractive, but certain limitations previously prevented their use in many applications.

Let us introduce LST300 from ABB – the device that removes the need for compromise on accuracy, power consumption, ingress protection, chemical resistance, HMI capabilities or measurement range. LST300 is the first to offer the benefits of remote devices in a compact instrument.

Whether used in municipal water applications or industrial processes, LST300 delivers enhanced reliability and performance, reducing the cost of ownership and delivering operational benefits.

A powerful low power device. With the most advanced technology in electronics, LST300 allows you to perform measurements and add features that required 4-wire power in the past. The new LST300 measures up to 10 m range while powering a graphic HMI, and still manages to function using only loop power without any special requirements.

Automatically adapts to process conditions. The LST300 takes the already powerful GAP technology of the LST400. The LST300 constantly monitors measurement data, optimizing the system for the best signal to noise at any tank size. This function ensures the LST300 always runs at its highest accuracy. The LST300 is easy to install in both small areas like stilling wells, and large tanks in difficult conditions.

Graphic echo display and full diagnostics. LST300 is the first to have full graphic capability and allows you to visualize the process on the instrument, while other compact instruments have simple character display systems only. Detailed tracking of signal quality, noise levels and many other important diagnostics make LST300 the easiest level transmitter to install.

Survives harsh chemical environments and flooding. Metal at the top, and PVDF at the bottom. LST300 is the first instrument that can be installed in the rough, corrosive conditions where only remote sensor instruments were typically used. All other compact ultrasonic instruments provide corrosion resistance only on the sensor, and requires you to separate the transmitter from the corrosive environment. The IP66/67 rated LST300 has no problem surviving tough outdoor conditions and can be fully submerged during flood conditions. Many other devices in the market only provide high IP ratings on the sensor (wetted parts), while their main electronics have only IP65 protection. However, LST300 is an integrated, yet fully protected device and its IP rating applies to the whole of the instrument.

ABB’s Measurement & Analytics business unit (www.abb.com/measurement) is among the world’s leading manufacturers and suppliers of instrumentation and analyzers. With thousands of experts around the world and high-performance technology, ABB’s team is dedicated to making measurement easy for its customers.

ABB (www.abb.com) is a leading global technology company in power and automation that enables utility, industry, and transport & infrastructure customers to improve their performance while lowering environmental impact. The ABB Group of companies operates in roughly 100 countries and employs about 135,000 people.