

# LST200 wins prestigious Red Dot Award

## Product Design 2021



reddot winner 2021

Congratulations ABB!  
LST200 wins the “Red Dot Award – Product Design 2021”

Measurement made easy

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01 Red Dot only awards “sought-after seal of quality that feature an outstanding design”

02 LST200 ultrasonic level transmitter

Never before, in the more than 60-year history of the Red Dot design competition, have so many companies and design studios faced the professional judgment of Red Dot’s international jury for winners as this year. Products from around 60 countries competed for product design recognition, their design quality and degree of innovation evaluated in a process lasting several days.

We are proud to announce that ABB’s LST200 ultrasonic level transmitter was awarded this sought-after seal of quality for its outstanding design. This is the first Red Dot Award that Process Automation – Measurement & Analytics has received! The award was given not only for the physical design of the LST200, but also for the technical design. The modular, physical design includes a water ripple look with blue LED backlight. The technical / application design that was recognized includes features relating to solving the surface condensation challenge, adaptive intelligent algorithms based on long-term (nearly 30 years) experience data and implementing a Field Information Management software for the PC to improve customer configuration efficiency.

Ultrasonic is one of the most mature technologies in measuring level and has been widely used in different applications such as water and wastewater, chemical, food and beverage, and more. Low cost, easy set up and low maintenance make it especially attractive for use in new applications like underground level measurement for smart cities and flow measurement for open channels.

### Features of the LST200

#### **Solving the surface condensation challenge.**

Historically, condensation from humidity or big temperature changes would create challenges. As drops of water developed and pooled on the sensor surface, the power of the ultrasonic would weaken, and the device could not “see” the real levels.



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01 Anti-condensation surface based on "Lotus Effect"

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02 Blue backlit and waveform function



To solve this challenge, the LST200 has a patented, new generation, active surface technology which is designed especially for water and wastewater treatment applications. It uses the concept of a "Lotus Effect" whereby the liquid will drop off before it pools into larger drops that then cause problems.

**Adaptive intelligent algorithm.**

Using GAP, the LST ultra-stable algorithm, the device can detect environmental changes including temperature, disturbance, measuring distance, signal strength, etc. It will then automatically compensate the variations to keep the device performing at its best.

**Waveform function for commissioning and trouble shooting--the eyes of the device.**

Waveform can help customer directly "see" the real time situation and greatly improve the efficiency of commissioning and trouble shooting.

**ABB FIM tool** provides a more efficient way to configure the device on PC:

- Quick guide for open channel flow configuration, no expert needed
- Back up and download the configuration, high efficiency for mass installation

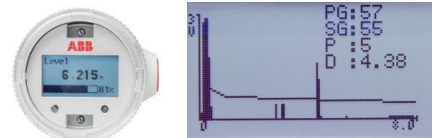
With these new features, LST200 Ultrasonic level transmitters will be more than equal to the applications in the water and wastewater industry. It is an easy solution for customers - Level Measurement Made Easy!

Congratulations, again, to the Level Measurement team for this highly-deserved recognition. The success of this honor will be celebrated June 21-25 during the Red Dot Design Week.

- For more information:**  
[LST200 Customer Video](#)  
[Customer Presentation](#)  
[Data Sheet](#)  
[Application Note](#)  
[Leaflet](#)



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