

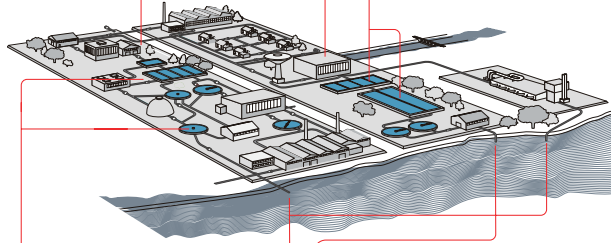
# Typical applications- water & waste water

## Chemical storage

- The LST200's polycarbonate enclosure is resistant to mild acid and base, chloride and oxidizers.

## Lagoons and settling ponds

- Easy setup menu and backlight help to simplify outdoor installation and commissioning.



## Open channel

- Built-in equations and supporting software for open channel flow save time and effort during setup and commissioning.

## Wet wells, lift stations and pumping stations

- Immune to noise caused by the presence of heavy equipment like variable speed drives, LST200 is the perfect choice in pumping stations.
- Submersible design protects against damage from flooding.

## Process basins including aeration, chlorine contact, skimmer tanks, sedimentation and flotation thickeners

- With advanced diagnostic functions such as detailed signal quality tracking and noise level diagnostics, the LST200 provides an easy to install alternative to remote instruments.
- Works easily in the presence of turbulence and foam using GAP (Gain, Amplitude, and Power) technology.

# Contact

## ABB Measurement & Analytics

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# LST200 ultrasonic level transmitter

The easy choice for intelligent level measurement



# Overview

Level measurement is a key requirement in many industries where accurate data on liquid levels is needed for purposes ranging from managing storage through to reporting. In water and wastewater treatment applications, where dozens of level devices may be used, a product that offers simple commissioning, reliable operation, fast delivery and easy maintenance offers tremendous customer value.

Developed in conjunction with our customers and drawing on ABB's extensive experience in level measurement, the LST200 ultrasonic level transmitter offers a simple, smart and reliable level measurement solution. Featuring a modular design, the LST200 utilizes the latest developments in digital sensing technology, including built-in smart chip and an interface for upgrading with future modern data acquisition methods such as NB-IoT, offering the full benefits of digitalization for improved measurement and sharing of data.

# General specifications

## Measurement range

0.35 to 8 m  
(13.78 to 314.96 in)

## Beam angle

(@ -3 dB, full angle): 10°

## Accuracy and repeatability

±3 mm or 0.25% of full span, whichever is larger

## Resolution

1 mm

## Update time

2 s

## Power supply

LST200-Basic: 15 to 30 VDC.  
LST200-LCD: 19 to 30 VDC.

Ripple: Maximum 5%

Power consumption

60 mW to 600 mW

## Analog output

Two-wire output: 4 to 20 mA related to level/distance/volume/flow, full compensation for temperature effects

# Key features



Easy setup menu and clear backlight for easy configuration



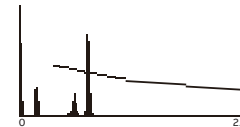
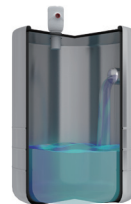
Easy installation, maintenance and upgrade with modular design



Reliable accuracy with temperature compensation (better than ±3 mm or 0.25% of full span)



Compact transmitter with real-time echo waveform display and diagnostic messages



Reliable protection grade IP66/IP68 which is typical for water and wastewater industry



Reliable and smart algorithm with noise filtering for challenging applications



Reliable electromagnetic compatibility (IEC CISPR standard) proved by independent laboratory testing

