Smart. Wireless. Autonomous.

LoRaWAN™

WILSEN.sonic for Intelligent Fill Level and Distance Measurement

Battery-powered, industrial-grade IoT sensor solution with LoRaWAN for outdoor use.

Your automation, our passion.

PEPPERL+FUCHS

WILSEN.sonic

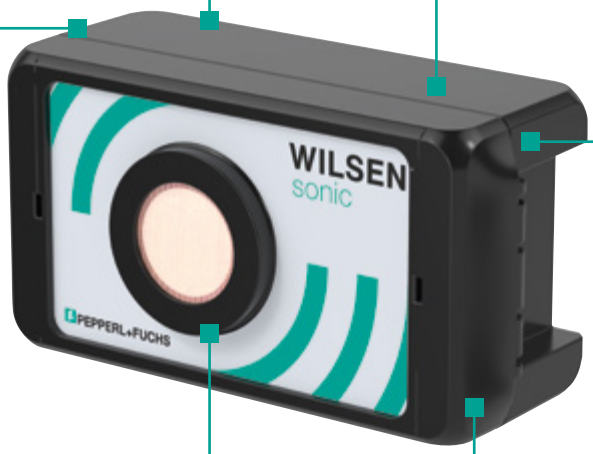
Innovative Sensor Solution Ensures Flexibility

Efficient Signal Transmission

- Globally standardized LoRaWAN® technology for transmission over several kilometers
- Integration into any LoRaWAN® network, whether private or public

Comprehensive Measurement Data Acquisition

- Ultrasonic sensor for level and distance measurement
- Geolocation via GPS
- Temperature values and battery status



Future-Proof Sensor Solution Tailored to the Application

- Unique ultrasonic expertise from the market leader
- Extensive parameterization options
- Energy-optimized technology and a high-power battery ensure a long sensor service life

User-Friendly Commissioning and Operation

- Easy commissioning and parameterization via the WILSEN app (Android and iOS) and Bluetooth® LE
- Remote access and parameterization via LoRaWAN® downlink channel
- Free web services: battery lifetime calculator and downlink support tool

Industrial-Grade IoT Sensor Suitable for Outdoor Use

- Rugged housing designed with IP66/67 protection
- Outdoor use at temperatures from –25 °C to +70 °C
- Precise measurements through high resolution and adjustable measurement interval

Versatile Application Solution

- Level, distance, and temperature measurement
- Geolocation of tanks, silos, and containers
- Flexible use in supply and disposal management, for level measurement applications, and in flood protection

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Advantages of LoRa Technology

- Connection of devices up to 15 km away and penetration through building walls and ceilings
- Data transmission via radio saves on wiring
- Global availability and vendor neutrality for quick implementation of IoT applications
- High data security and integrity through authentication and end-to-end encryption
- Minimal absorption of transmission energy—sensor can operate for years without battery replacement
- Low or zero operating costs due to use in a license-free frequency band