IoT Sensor for Intelligent Fill Level Management

LoRaWAN™

WILSEN.sonic.level

Autonomous wireless sensor combined with unique ultrasonic expertise—your competitive advantage for intelligent business processes.

Your automation, our passion.

PEPPERL+FUCHS

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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

User-Friendly Commissioning

- Easy parameterization and registration in the LoRaWAN® radio network via the WILSEN app (Android and iOS) and Bluetooth® LE

Comprehensive Measurement Data Acquisition

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

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

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

Versatile Application Solution

- Level and temperature recording plus geolocation anytime of tanks, silos, or 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