

# AirWire LoRa Level Transmitter

For In-Plant and Nearby Wireless Applications



**Level** transmitters control Senix ToughSonic® ultrasonic sensors to periodically measure and send liquid or solid level readings to local LoRa-compatible receivers without recurring fees.

LoRa wireless is a low cost, low power, secure link designed for sensors and IoT applications that need to send small amounts of data a few times per hour from varying environments.

The level transmitter conserves battery energy by periodically turning the sensor on to measure, then turning the sensor off and reporting the result.

**Transmits  
Liquid & Solid Levels  
up to  
10 miles rural and  
3 miles urban**



Works with any ToughSonic® Standard or CHEM RS-485 interfaced sensor

## Features

### Functionality

- Transmits level periodically on remotely adjustable schedule
- Manages power, sensor and data communications
- Battery life 2-5 years <sup>(1)</sup>
- Status and fault reporting
- Many transmitters can be handled by a single receiver
- Network & application security
- LoRa certified end node

### Packaging

- Housed in UV stabilized, polycarbonate plastic, IP66 and NEMA 4X rated enclosure
- Sealed sensor cable gland
- Three internal D-cell batteries
- Internal USB connection for sensor adjustment & testing

*Note (1): affected by schedule, sensor setup, environment, batteries used*

## Benefits

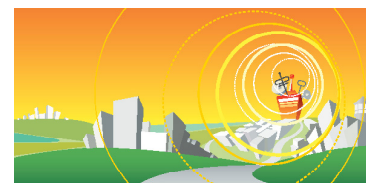
- Eliminates the need for and cost of installing conduit
- Is safer, faster and more accurate than site visits
- Low-cost technology - no required subscription charges
- Low energy for long battery life and low maintenance cost
- Level transmitter operates during power outages
- Cabled sensor allows for optimal transmitter placement
- Status reporting supports installation and maintenance
- Security for privacy, message integrity and authenticity
- Meets latest IoT standards
- Sends to Senix LoRa receivers or public LoRa networks
- Senix field-proven IP68 sensors mean reliability and long life
- View on LAN (you own it) or subscription cloud services

## Data Destination

### Dedicated Local Receivers

Installed in your plant or office, receivers collect transmitted data, send email alarms, and/or provide LAN or cloud-based displays that are viewable on any device. See the **AirWire LoRa Receiver-Gateways** data sheet.

### Public LoRa Services



In many locations commercial carriers now offer subscription-based public LoRa "Network-as-a-Service" (NaaS) supporting the evolving "Internet of Things". Senix can help you get connected to these services.

