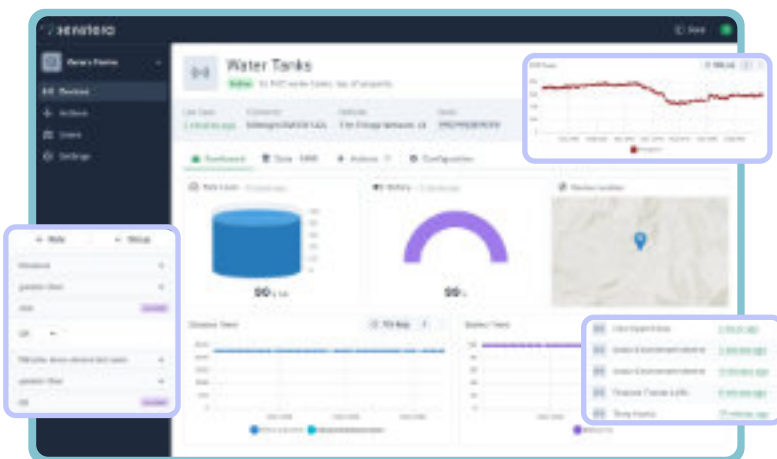# EM310-UDL Ultrasonic Distance/Level Sensor

The EM310-UDL Ultrasonic Distance/Level Sensor is a versatile, accurate, and reliable tool for distance and level measurements using LoRaWAN® networks.

The EM310-UDL uses an ultrasonic beam to measure the distance between the sensor unit and the nearest solid surface and includes a tilt sensor to track lid up/lid down conditions. Its non-contact operation, ease of installation, automated, and real-time monitoring capabilities make it useful in a wide range of applications across various industries to help you make data-driven decisions.

Data Visualization Platform

Our monthly subscription includes access to the Senstera platform to provide real-time insights, analytics and data visualization with an easy-to-use dashboard.

The Senstera platform is a robust, secure, scalable, centralized data aggregation and management platform with a user-friendly Interface allowing you to remotely monitor your assets with easy to set up features like geofencing, email and/or TXT alerts (additional costs for some services may apply). Integrate your data with other business systems to better plan and enhance your compliance, reporting and overall workflows.

Hardware Costs

EM310-UDL Ultrasonic Distance/Level Sensor $250.

Ongoing Costs

Choose a LoRaWAN network to connect to. Monthly subscriptions include access to the Senstera platform.

Commercial LoRaWAN network subscription	**Community** LoRaWAN network subscription
from	from
$9.75 per month or **$117** annually	**$7.50** per month or **$90** annually

Use cases are...

Agriculture & Farming
The EM310-UDL sensor is commonly used for monitoring liquid levels in irrigation tanks, grain silos and reservoirs often helping farmers providing critical data assisting in efficient resource management.

Water Management
In water management applications, the sensor helps in measuring water levels in rivers, lakes, and dams, providing crucial data for flood forecasting and water resource management.

Waste Management
The sensor is employed in waste management systems to measure the fill level of waste containers, optimizing waste collection schedules and reducing operational costs.

Parking Systems
The sensor helps monitor parking spaces to guide drivers to available spaces using smart parking systems.

Mining & Construction
The sensor is used to measure distances in mining and construction operations for positioning equipment and monitoring stockpiles.

Hydroponics & Aquaponics
In hydroponic and aquaponic systems, the sensor helps monitor nutrient solution levels and water levels in fish tanks.

Smart Cities
The sensor is utilized in smart city initiatives for various applications, such as monitoring water levels in smart stormwater systems.

Infrastructure Maintenance
It assists in monitoring water levels in drainage systems and reservoirs to ensure proper infrastructure maintenance.

Set-up & Installation

When you receive your order just follow the activation instructions to turn on your device, attach it to the asset you want to track and login to your Senstera account to monitor its location.

You can also set up geofencing, email and/or TXT alerts to advise you if a condition needs attention.

If there is no LoRaWAN network coverage in your area you will also need to purchase and install a suitable LoRaWAN gateway connected to your internet modem.