

Io-Things Bv

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HydrioSense Maxbotix data sheet

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Product description



The **HydrioSense** is a compact, low-power IoT solution designed for accurate water level and distance monitoring in wells, cisterns, and remote hydrological applications. In this configuration, the module is equipped with a **MaxBotix MB7589 ultrasonic sensor**, ideal for non-contact liquid level measurements in challenging environments.

The MaxBotix sensor delivers precise and temperature-compensated distance readings, while the HydrioSense module ensures seamless data transmission via the Sigfox network, making it an excellent choice for long-term deployments in urban infrastructure, water utilities, and coastal monitoring.

Technical specifications

- **Reliable Distance Sensing**

The MaxBotix MB7589 offers consistent performance across a wide range of environmental conditions. It accurately detects both liquid and solid surfaces with a range of 0.3 to 5 meters and a resolution of 1 mm, supported by internal temperature compensation.

- **Exceptional Battery Life**

The HydrioSense module is optimized for ultra-low-power operation, achieving a battery lifespan of over 15 years when configured for 2-hour measurement intervals.

- **Out-of-the-box Deployment**

The sensor is delivered fully assembled and calibrated for rapid installation. No complex wiring or setup is required, reducing deployment costs and time.

- **Robust Connectivity**

Data is transmitted via **Sigfox**, enabling reliable communication in remote or underground locations. Optional upgrades for LoRaWAN or NB-IoT are also available.

- **Modular Design**

Sensors and electronic components are easily replaceable, minimizing downtime and ensuring long-term maintainability.