ioX-Connect®

INDUSTRIAL TEMPERATURE & HUMIDITY LORAWAN SENSOR

An IoT sensor designed to measure and monitor environmental temperature and humidity in a wide range of industrial applications

KEY FEATURES

◆ **High-Precision Sensing:** Accurately measures temperature from -40°C to 80°C and relative humidity from 0% to 99.9%, making it suitable for sensitive environments.

◆ **Extended 5-Year Battery Life:** Engineered for long-term autonomous operation with a high-capacity 8500mAh Li/SOCl2 battery. An optional solar-powered version is also available for perpetual deployment.

◆ **Robust & Waterproof:** Housed in an IP66-rated waterproof enclosure, ensuring reliable performance in harsh indoor and outdoor conditions.

DEVICE OVERVIEW

The ioX-Connect Industrial LoRaWAN Temperature & Humidity Sensor is a robust, battery-powered end node designed for long-term environmental monitoring. It provides highly accurate temperature and humidity readings for various IoT applications. Engineered for remote deployments, the sensor is powered by a high-capacity 8500mAh Li/SOCl2 battery (or an optional solar-powered rechargeable battery) for up to 5 years of autonomous operation. Management is simplified with wireless Over-the-Air (OTA) firmware updates, and each node is pre-provisioned for rapid and secure onboarding to any ioX-Connect platform. The device also features a temperature and humidity alarm to alert you when readings exceed preset thresholds.

TECHNICAL FEATURES

- **LoRaWAN Version:** v1.0.3, Class A (NB-IoT, LTE-M & CAT-M1 versions available)
- **Frequency Bands:** 868: For EU868,RUS864,IN865,KZ865 | 915: For US915,AU915,AS923,KR920
- **Supply Voltage:** Built-in Battery, 2.5v ~ 3.6v
- **Power Options:** 8500mAh Li/SOCl2 (S31B-LB) or Solar Powered 3000mAh Li-ion option
- **Product Dimensions:** 12 x 12 x 3 cm | Weight: 138 g
- **Enclosure:** IP66 Waterproof
- **Operating Temperature:** -40 ~ 85°C
- **Configuration:** Remotely configurable via any ioX-Connect platform
- **Sensor Probe:** Sensirion digital temperature & humidity sensor (±0.3 °C, ±2 % RH accuracy) - NIST Calibration & Certification available on request (additional charges will apply) - Offset adjustments available in ioX-Connect

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