



LORAWAN TEMPERATURE, HUMIDITY & LUX SENSOR

TH01LX | LORAWAN 1.0.3 CLASS A | ILLUMINANCE PROBE



KEY FEATURES

- ◆ **Three-in-One Environmental Monitoring:** Built-in temperature and humidity sensor combined with an external BH1750 illuminance probe for comprehensive ambient condition tracking in a single device.
- ◆ **Ultra-Long Battery Life:** Built-in 2400 mAh non-rechargeable battery delivers over 10 years of reliable field operation with minimal maintenance
- ◆ **High-Resolution Light Sensing:** External illuminance probe provides 1 lx resolution across a 0–65,535 lx range, ideal for daylight harvesting, grow-house control, and occupancy-based lighting

DEVICE OVERVIEW

The ioX-Connect LoRaWAN Temperature, Humidity & Lux Sensor is a long-range wireless device that combines indoor climate monitoring with precision light-level measurement. Its built-in temperature and humidity sensor covers ambient conditions, while the external BH1750 illuminance probe on a 50 cm cable enables flexible placement for accurate lux readings.

Designed for multi-year unattended operation, this light meter runs on a 2400 mAh battery rated for 10+ years of battery life and supports LoRaWAN Class A for optimal power efficiency. A tri-color LED provides at-a-glance status, and remote configuration is available via AT commands or LoRaWAN downlink, eliminating the need for on-site adjustments.

Fully compatible with the ioX-Connect platform, each unit ships pre-provisioned with unique LoRaWAN keys for rapid onboarding. The combination of temperature, humidity, and lux monitoring in one compact package makes it a versatile tool for smart building and agricultural deployments.

Best For: Smart building lighting automation, greenhouse and grow-house management, HVAC optimization, workspace occupancy analytics, and energy-efficiency programs.

TECHNICAL FEATURES

- **Protocol:** LoRaWAN 1.0.3, Class A (OTAA / ABP) | Frequency Bands: EU433, KR920, US915, EU868, AS923, AU915
- **Built-in Sensors - Temperature:** Range –40 to 80°C | **Humidity:** Accuracy ±3% RH, Range 0–96% RH
- **Probes:** 1 × integrated Light/Lux Sensor (Based on BH1750 sensor), Resolution 1 lx, Range 0–65,535 lx, 50cm cable/lead
- **Battery:** 2400 mAh (non-rechargeable), 10+ year lifespan
- Devices are **pre-provisioned** in ioX-Connect platform for quick and easy deployment.
- **Additional Features:** Tri-color LED, AT Commands, Firmware Upgradable, LoRaWAN Downlink
- **Installation:** Wireless. No additional control wiring required



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