



INDUSTRIAL ANALOG SENSOR END NODE

0~20mA and/ 0~30V Analog Input



KEY FEATURES

- ◆ **Universal Analog Sensor Interface:** Provides both 5V and 12V power to external sensors and reads data via standard 4-20mA and 0-30V inputs, ensuring compatibility with a wide range of third-party devices.
- ◆ **Extended 5-Year Battery Life:** Engineered for long-term autonomous operation with a high-capacity 8500mAh Li-SOCl₂ battery. An optional solar-powered configuration is also available for perpetual deployment.
- ◆ **Rapid & Secure Onboarding:** Pre-provisioned with unique keys enabling simple, out-of-the-box registration and automatic connection for fast and secure network onboarding.

DEVICE OVERVIEW

The **ioX-Connect LoRaWAN Analog Sensor** is a versatile end node designed to bridge third-party analog sensors with your IoT network. It provides switchable **5V and 12V power outputs** to connected devices while monitoring standard analog signals through its **4-20mA and 0-30V inputs**. Engineered for long-term, remote deployments, the sensor is powered by a **high-capacity 8500mAh Li-SOCl₂ battery (or optional solar)** for up to 5 years of autonomous operation. Management is simplified with wireless Over-the-Air (OTA) updates, and each node is pre-provisioned with unique keys for rapid, secure onboarding to the ioX-Connect platform.

TECHNICAL FEATURES

- **LoRaWAN Version:** v1.0.3, Class A
- **Supply Voltage:** Built-in Battery , 2.5v ~ 3.6v
- **Power Options:** 8500mAh Li-SOCl₂ or Solar Powered 3500mAh option
- **Self-Discharge:** <1% / Year @ 25°C for 8500mAh Li-SOCl₂ battery
- **Operating Temperature:** -40 ~ 85°C
- **Downlink Configuration:** Remotely configurable via ioX-Connect platform or ioX-LoRaWAN Network Server
- **Firmware Updates:** Wireless OTA (Over-The-Air) firmware upgrade capability
- **Supported Frequency Bands:** CN470, EU433, KR920, US915, EU868, AS923, AU915, IN865, RU864
- **Input:** 1 x 0~20mA input , 1 x 0~30v input
- **Output:** 5v or 12v output to power external sensor



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