



LORAWAN I/O CONTROLLER / RELAY

WIRELESS MULTI-INPUT / OUTPUT CONTROLLER



KEY FEATURES

- ◆ **Multi-Interface Support:** Includes analog voltage and current inputs, digital inputs and outputs, and relay outputs — all in one compact device.
- ◆ **IntegrateDual Operation Modes:** Supports both LoRaWAN Class A and Class C for flexible real-time monitoring or command responsiveness.
- ◆ **Rugged and Compact Design:** Built for long-term deployment in industrial, agricultural, and commercial installations.

DEVICE OVERVIEW

The ioX-Connect LoRaWAN I/O Controller is a long-range, wireless I/O module designed to remotely monitor and control a wide range of industrial, agricultural, and building automation systems. Equipped with analog inputs, relay outputs, and digital I/O channels, this versatile controller simplifies integration with existing field devices — enabling users to read sensor data and activate control relays directly from the ioX-Connect platform or via automated logic triggers.

Built on LoRaWAN® Class A & Class C protocols, the controller provides ultra-long-range communication, exceptional interference immunity, and low power consumption. This makes it ideal for professional IoT and SCADA applications such as irrigation control, smart metering, industrial process management, and facility automation.

⚠ Important Notice:

The ioX-Connect LoRaWAN I/O Controller is designed for general industrial and automation applications. It should not be used for safety-critical or life-support systems without appropriate external safety controls.

TECHNICAL FEATURES

- **LoRaWAN Version:** v1.0.3, Class A & Class C
- **Microcontroller:** STM32L072 | **LoRa Chipset:** Semtech SX1276 / SX1278
- **Power Supply:** 7 – 24 V DC
- **Analog Inputs (Voltage):** 2 × 0–30 V (Resolution: 0.01 V) | **Analog Inputs (Current):** 2 × 0–20 mA (Resolution: 0.01 mA)
- **Relay Outputs:** 2 × Relays (5 A @ 250 VAC / 30 VDC) | **Digital Outputs:** 2 × NPN Outputs (Max 36 V, 450 mA)
- **Digital Inputs:** 2 × Dual-Direction Inputs (Detect High/Low signals, Max 50 V or 220 V with optional external resistor)
- **Operating Temperature:** –40 °C to +85 °C
- **Frequency Bands:** CN470 / EU433 / US915 / EU868 / AS923 / AU915 / IN865
- **Enclosure:** Industrial-grade housing (optional IP65 rated enclosure available)
- **Mounting Options:** DIN-rail or wall-mounted (depending on enclosure version)



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