ioX-Connect®

LORAWAN SMART RELAY
LORAWAN CLASS C SMART RELAY CONTROLLER

KEY FEATURES

◆ **Remote Appliance Control:** Wirelessly switch electrical appliances and lighting on/off via the ioX-Connect platform with low-latency LoRaWAN Class C communication.

◆ **Built-In Electrical Protection:** Equipped with overcurrent, overvoltage, and short-circuit temperature rise protection to safeguard connected equipment and prevent lightning damage

◆ **Wide Voltage Compatibility:** Operates across 80–275V AC with a maximum 15A resistive load, suitable for a broad range of commercial and industrial appliances

DEVICE OVERVIEW

The **ioX-Connect LoRaWAN Smart Relay** is a compact, wireless relay controller designed for remote switching and status monitoring of electrical appliances and lighting. Operating in **LoRaWAN Class C** mode for continuous listening and low-latency command execution, the relay enables real-time control of connected loads through the ioX-Connect platform.

Built with a fireproof PC material housing and anti-UV coating, the relay is engineered for demanding environments including greenhouses, smart factories, hotels, and warehouses. Its dual-terminal design with two input and two output terminals simplifies installation, while auto-join capability ensures the device connects to pre-registered LoRaWAN networks immediately upon power-up.

Best For: Greenhouse lighting automation, smart factory equipment control, hotel room appliance management, warehouse ventilation and fan control, and any application requiring remote on/off switching of AC-powered devices

TECHNICAL FEATURES

- **LoRaWAN Version:** v1.0.3, Class C
- **Operating Voltage:** 80–275V AC
- **Maximum Load:** 15A Resistive Load | **Relay Type:** Single-channel with zero-crossing trigger
- **Terminal Design:** Dual terminals - 2 input (Live/Neutral) and 2 output (Live/Neutral)
- **Electrical Protection:** Overcurrent, overvoltage, and short-circuit temperature rise protection
- **Enclosure Material:** Fireproof PC material with anti-UV coating
- **Network Join:** Auto-join to pre-registered ioX-Connect network on power-up
- **Downlink Configuration:** Remotely configurable via ioX-Connect platform
- **Supported Frequency Bands:** CN470, EU433, KR920, US915, EU868, AS923, AU915, IN865

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