



LORAWAN WIRELESS SMART VALVE

LORAWAREMOTELY CONTROLLED BATTERY-OPERATED SMART VALVE

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KEY FEATURES

- ◆ ***11+ Year Battery Autonomy:** Engineered for long-term, autonomous operation with an ultra-low-power design.
- ◆ **Industrial Grade Durability:** Built for harsh environments with a PN50 pressure rating and compatibility with fluid temperatures up to 240°C (450°F).
- ◆ **Advanced LoRaWAN Features:** Supports LoRaWAN Class C for low-latency communication, frequency hopping to mitigate interference, and adaptive data rate to optimize network performance.

DEVICE OVERVIEW

The **ioX-Connect® LoRaWAN Wireless Smart Valve** is a high-performance, battery-operated valve with integrated LoRa LPWAN wireless technology. Designed for reliability and longevity, this all-in-one smart valve provides over *11 years of autonomous operation. Its superior long-range communication capabilities ensure exceptional obstacle penetration and connectivity. In the event of a leak, the valve can automatically shut off the main line to prevent significant damage while simultaneously triggering real-time alerts through the ioX-Connect platform.

**Battery life depends on reporting intervals and device usage*

TECHNICAL FEATURES

- **LoRaWAN® Version:** Compliant with all IoT platforms.
- **Communication Mode:** TDMA to prevent data collision and frequency hopping to avoid co-channel interference.
- **Dimensions:** Size: 100.5 mm (L) x 81.5 mm (W) x 104.8 mm (H) - Weight: 325 g
- **Battery:** 3.6V (Li-battery) ER18505.
- **Valve Sizes (BRASS/SS304):** DN15, DN20, DN25 (up to DN100 available).
- **Working Pressure:** 1.6MPa.
- **Open/Close Time:** 16 seconds.
- **Transmission Power:** 20dBm.
- **Supported Frequency Bands:** EU868 (Europe, Middle East), US915 (USA/Australia), AS923 (Australia/New Zealand, ASIA), IN865 (India).