

UPROX Valve Manual

Version: UA.0.008 | Release Date: 03.2024

Table of Contents

1. Description
2. Features
3. Functional Parts
4. Installation and Mounting
5. Registration and Configuration
6. Compatibility
7. Operation
8. Battery Replacement
9. Warranty
10. Manufacturer Contact

Description

The UPROX Valve is a wireless control device designed for motorized valves used in water supply systems, irrigation, and similar applications. It allows remote opening and closing of the valve, providing an elegant and convenient solution for external device management. The device communicates with the UPROX MPX security center using a protected, two-way ISM wireless interface.

WARNING: RISK OF EXPLOSION IF BATTERIES ARE REPLACED WITH AN INCORRECT TYPE. Dispose of used batteries according to national regulations.

The UPROX Valve is configured via the UPROX Installer mobile application and is compatible only with the UPROX MPX system.

Features

- **Wireless Communication:** Frequency: 868.0–868.6 MHz with multiple channels

for redundancy; Range: Up to 2000 m in open space; Maximum output power: Up to 20 mW (three power levels available).

- **Control Functionality:** Enables both opening and closing of motorized valves; Detects and displays faults in valve operation and connection loss.
- **Power Supply:** Operates on two CR123A lithium batteries (3 V) with a service life of up to 3 years; Optional 12 V output available via built-in connector (cable length up to 2 m).
- **Design:** Available in two colors (white and black) with simple and convenient mounting.
- **Operating Temperature:** From -10°C to $+55^{\circ}\text{C}$.
- **Radio Consumption:** Standby: $\leq 5\ \mu\text{A}$; During valve switching: $\leq 600\ \text{mA}$ (maximum).
- **Communication:** Protected two-way communication using a 256-bit encryption key.
- **Warranty:** 2 years from the date of sale.

Functional Parts

1. **Device Body:** The main casing available in white or black.
2. **LED Indicator:** Provides visual status feedback (see “LED Indication” in Operation).
3. **Batteries:** Two CR123A lithium batteries are installed in the kit.
4. **Tamper:** Indicates if the device has been improperly accessed.
5. **On/Off Button:** Used to power the device on and off.
6. **Valve Connector:** Terminal block for connecting the motorized valve.

Installation and Mounting

Selecting the Installation Location

Choose an indoor location with controlled temperature (-10°C to $+55^{\circ}\text{C}$) and low humidity. Avoid areas with high radio interference or objects (e.g., metal, mirrors) that may attenuate or shield the signal. Place the device at least 1 m from the security center.

Removing the Device from the Mounting

Use a plastic card to gently release the device from its mounting bracket.

Mounting the Device

Reassemble the mounting bracket using the supplied screws and dowels. Attach the UPROX Valve to the bracket, sliding it downward until the tamper contact is locked (the LED indicator will flash to confirm).

Valve Connection

- **Contact 12VOff:** Valve closed.