



Extreme range LoRaWAN® switch for valve actuator

- ⊙ LoRaWAN wireless smart-switch for valve actuator
- ⊙ Extreme range signal propagation
- ⊙ Battery operated with ultra-low consumption – 10-15 years autonomy
- ⊙ LoRaWAN Class A and Class C
- ⊙ Time-controlled automatic operations
- ⊙ Fits all DC and AC valve actuators
- ⊙ Fraud resistant with tamper
- ⊙ Industrial grade design
- ⊙ License free operation on EU868, US915 and AS923
- ⊙ IoT ready (compliant with all Internet of Things platforms)
- ⊙ Exceptional signal penetration through obstacles
- ⊙ Free of charge Android and iOS App



The **STREGA time-controlled switch for valve actuators** is a battery-operated wireless switch to remote control your butterfly valves with embedded **LoRaWAN®** technology. With its ultra-low-power consumption, the smart-switch can be triggered for remote OPEN/CLOSE operations. The switch is working on batteries during 10+ years (Class A) or limitless on external power supply (Class C). It communicates on extreme long distances with exceptional deep indoor signal penetration.



Operate your valve securely from your smartphone or tablet

- ➔ **Extreme range:** ultra-long range propagation of the signal with deep obstacles penetration
- ➔ **Automatic schedules:** programmable OPEN/CLOSE sequences
- ➔ **Industrial grade:** high noise immunity, indoor/outdoor use
- ➔ **Low consumption:** ultra-low power with 10+ years autonomy
- ➔ **Digital and analog sensors:** 2 x digital inputs, one 0-10VDC analog measurement, temperature and hygrometry sensor, leak detection...
- ➔ **Tampering:** any misuse is immediately reported
- ➔ **Mobile Control:** operate your valve directly from your smartphone or tablet

Specifications

Features	Specifications
Product ID	Time-controlled wireless power switch for butterfly valve actuator
Radio technology	LPWAN LoRaWAN 1.0.2 Class A (LITE) – star-of-stars topology – or Class C (FULL edition)
Working t°	-20°C...+70°C / -4°F...160°F
Embedded switching relay	Max. 250 VAC - 5A bistable - NO+NC with 2 alternate lines
Antenna	embedded
Manual override	Local OPEN/CLOSE by press buttons or by approaching a magnet
Extra sensors	Temperature and hygrometry, 2 x Digital Inputs, 1 x 0-10VDC analog
Duty Cycle	100% continuous rating
Tamper	Enclosure opening is immediately reported to the Concentrator
Humidity	Supplied with conformal coating or optional epoxy potting
IP protection	IP67
Power supply Class A	One or two Lithium batteries type-D 3.0VDC or 3.6VDC
Power supply Class C	External from 9 to 60 VDC
Reference	SEZ-XXX (XXX for regional frequency EU868, US915, AS923 Z for LITE or FULL)

Features	Specifications
Smart Operation	Programmable <i>automatic</i> Open/Close schedules (max. 4/day)
Range	15+km LOS (line of sight) - 2+ km in urban environment
Security	128-bit AES encryption key
Max. emitters per concentrator	128-1000 depending on duty cycles
Max. emitters per project	not limited (each emitter has a unique ID key)
Frequency	License free EU868, US915, AS923
Cable health monitoring	Detection of faulty relay or wire disconnection
Maximum output power	+14dBm (+20dBm for US915)
Data rate	290 bps – 50 Kbps
Data Read	OPEN/CLOSE status, battery level, 2x DI, 0-10VDC measurement, leak detection, enclosure tampering, alarm, temperature, hygrometry, RSSI, etc.
Data Write	OPEN/CLOSE command – transmit frequency – schedulers - time sync, etc.
External cabling to the Actuator	Via sealing gland
Mobile App	Free of charge mobile Application for Android and iOS
Public Network and LNS interoperability	Orange, Objenious, Lorient, ChirpStack, Kerlink-Wanegy, Comcast, Meshed, TTN, Helium, NNNCo, Helium, The Things Network, Actility ThingPark, Senet, Digita, ...

* battery life depends on Rx/Tx frequency and OPEN/CLOSE (ON/OFF) frequency

