



LORAWAN WIRELESS SMART WATER SYSTEM CONTROL

WaterSens is a Compact Smart Water Control, able to manage up to 4 external latch valves remotely over LoRaWAN.

- Lorawan allows to connect devices with distances higher than 10Kms in LOS allowing to automate actions reducing displacements.
- Inputs:
 - 2 analogs inputs for externals sensors (Soil moisture, Ta).
 - 1 digital input available for pulse metering.
- Easy commissioning and maintenance through NFC communication.
- Totally open to be integrated in any platform.
- Ready to be deployed in the field with no need of maintenance in 10 years.
- Saving Cost reducing external wiring supply.



Uses cases

Smart agriculture.
Smart cities. Landscaping.
Smart Irrigation in Golf courts & Resort







Golf









Benefits & Key features

Compact dimensions ready to be deployed with different options: (pole, directly in the water valve box, ...) Digital inputs for pulse meter reading for:

- Water Consumption control.
- Automatic water switch off in case of leak detection.
- Remote water service cut off for users not paying their water bills.
- NFC communication for setting configuration. Reduce installation times and maintenance.
- Long life battery (2 daily switchings for 10 years with no need of maintenance)
 Saving Costs:
 - Significative reduction in wiring connections during installation.
 - · Water consumption saving.
 - Reduction of maintenance costs.
- Systems ready to work in a easy way with several platforms.
- Like ubidots: You can review in the link [QR code].



Technical features LORAWAN COMMUNICATION Lorawan Specification v1 0 2 End device type Frequency plan EU868, US915, CN779, AU915, AS923, KR920, IN865 NFC COMMUNICATION Frequency 13.56Mhz Interface Passive NFC **POWER SUPPLY** Maximum pulse current 2500mA Life expected 10 years (*) MECHANICAL FEATURES Dimensions 110x150x40mm Weight 320g IP class IP67 Housing material ABS UL94 V-0 **INPUTS** 110.00 External Temperature Analog signal. Range [0...3,3V]. Protected against ESD External Humidity Analog signal. Range [0...3,3V]. Protected against ESD External waterpulse counter.... Digital signal. Range [0...3,3V] or free potential Protected against ESD. Maximum frequency 1KHz 50, **OUTPUTS** Number of electrovalves 4 Output pulse activation voltage (Vab) +9V Protection against ESD and voltages peaks originated by solenoid switching 40,00 Pulse duration current 20ms.200ms Maximum wire length recommended current ______2m Operating temperature [°C] [-10 / +50] ENVIRONMENTAL FEATURES Storage temperature [ºC] [-20 / +60] MECHANICAL FEATURES Dimensions[WHD] [110x150x40] Weight[g]

(*) Conditions. 2 irrigation operations/day.

1 latch electrovalve connected (9V-2W) No external sensors connected