



# LORAWAN SMART LOAD CONTROL SYSTEM

Lorawan smart load control system that allows to manage electrical loads up to 480 VAC.

Lorawan allows to connect devices with distances higher than 10Km in LOS allowing to automate actions and reducing displacements.

- Inputs:
  - 2 analogs inputs for externals sensors.
  - 1 digital input available
- 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

Easy integration in Solar water pump for agriculture irrigation system. Remote panel conrol up to 480Vac of switching supply.

Any kind of industrial and home automation (doors, blinds, light control, swimming pools,...)

# **System**

The Lorawan smart load control system is composed by 2 devices for a better performance.

- 1) Relay box unit: ready to be deployed inside the panel or near the load. To avoid electrical hazards.
- 2) External control unit: for maximum coverage

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### **RELAY BOX UNIT**

2 inputs to be connected to the control unit:

- 2 NO relay outputs .
- Maximum switching voltage up to 480Vac.
- Output protected against overvoltage (inductive loads).
- Safety Electrical CAT III.
- Designed according to UL, VDE and IEC safety requirements .

### CONTROL UNIT

- 2 outputs must be connected to the relay box unit:
- Start and stop output to control water pumps, electrical motors,....
- activation schedule in 15 minutes slots
- long life battery
- NFC interface for commissioning and maintenance









# Benefits & Key features

Compact dimensions

Ready to be deployed with different options: (pole, directly in the water valve box, ...) Digital Inputs.

NFC communication for setting configuration. Reduce installation times and maintenance.

Systems ready to work in a easy way with several platforms.

Like ubidots: You can review in the link [ QR code ].

Long life battery ( 2 Daily switchings for 10 years with no need maintenance. Saving cost:

- Reduction in installation (Significative reduction in wiring connections)
- Reduction of maintenance costs



## **Technical characteristics**

110,00 00 00 00 00 00 00 00 00 00 00 00 00	Outputs  Maximum switching voltage  Maximum switching current  Maximum switching power  Dielectric strength – between input and output-  Expected life (Mechanical)  Protection  Contacts protected for intelectrical category	480 V AC 10 A AC 4800 VA 4800 VA 4000Vrms Imin 1.10^6 operations ductive loads by Varistor
LORAWAN COMMUNICATION	Lorawan Specification End device type Frequency plan EU868,US915,CN779,AU9	Class A
NFC COMMUNICATION	FrequencyInterface	
POWER SUPPLY	Type Voltage Maximum pulse current Life expected	3,6[V] 2500mA 10 years (*)
MECHANICAL FEATURES	Maximum wire length recommended current Dimensions[mm] Device 1 Dimensions[mm] Device 2 IP class	110x150x40 110x110x40
ENVIRONMENTAL	Operating temperature [ºC] Storage temperature [ºC]	