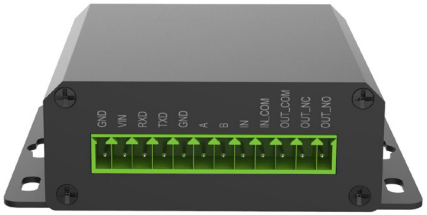
SMART PLC

IO01
Technical Document



Description

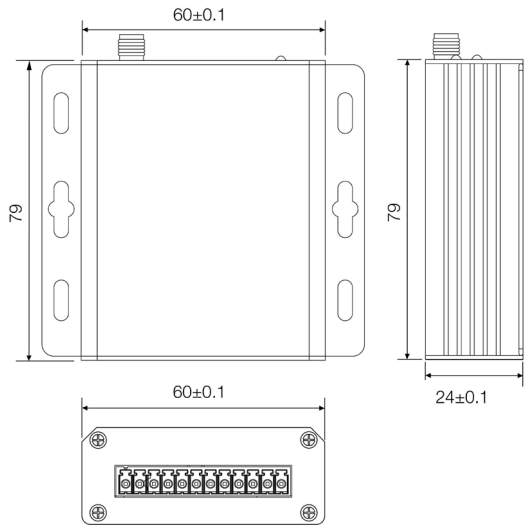
Smart PLC radio device for remote reading and remote management, intend to provide a complete suite of features that guarantee a continuous monitoring of the performance of the system, in order to implement logics that allow improvements. The device allows the reading of the status of two digital inputs and the control of two relay outputs.

Through the appropriate software it is possible to configure the execution of actions following the occurrence of one or more events (triggers), such as the status change of a digital input. The versatility and ease of configuration of the device makes it perfect for use in various fields and applications. The digital inputs support input voltages from 3 to 24VDC, while the relay outputs are able to directly manage a maximum voltage of 250VAC or 30VDC with maximum current of 3A. The two relay allow the simultaneous wiring of the normally open and normally closed output.

The Smart PLC can be installed inside electrical panels, junction boxes or fixed directly on surfaces. The radio communication interface follows the standard LoRaWAN® 1.0.2 (class C), low powered and long ranged communication technology. The LoRaWAN® technology provides the highest radio communication performance in terms of reliability, scalability and overcoming obstacles with low energy consumption.

The device is designed to operate in the temperature range -40~+70 C and IP30 degree of protection. Smart PLC complies with regulations and has the CE mark.

Device dimension



The device allows automatic commissioning via the URBANA TOOLKIT mobile application, available on the Apple App Store and Google Play Store, with easy-to-use QUICKSCAN procedures. The programming of the functions is done through the appropriate configuration software.

Device info

Model	Digital input	Relay output	Product code
IO01	2	2	based on project request

CONNECTION SCHEME

IO01
Technical Document

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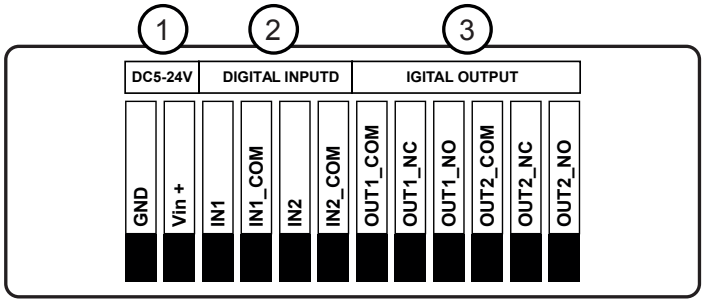
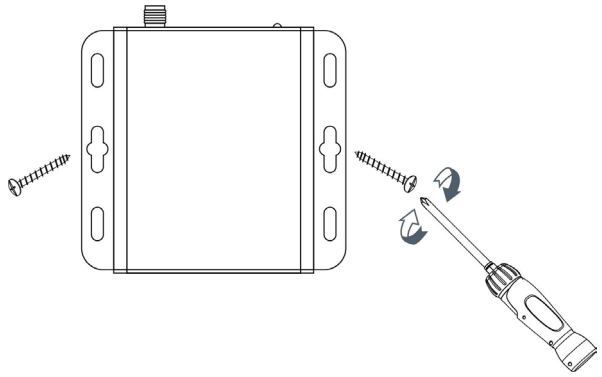
Device description

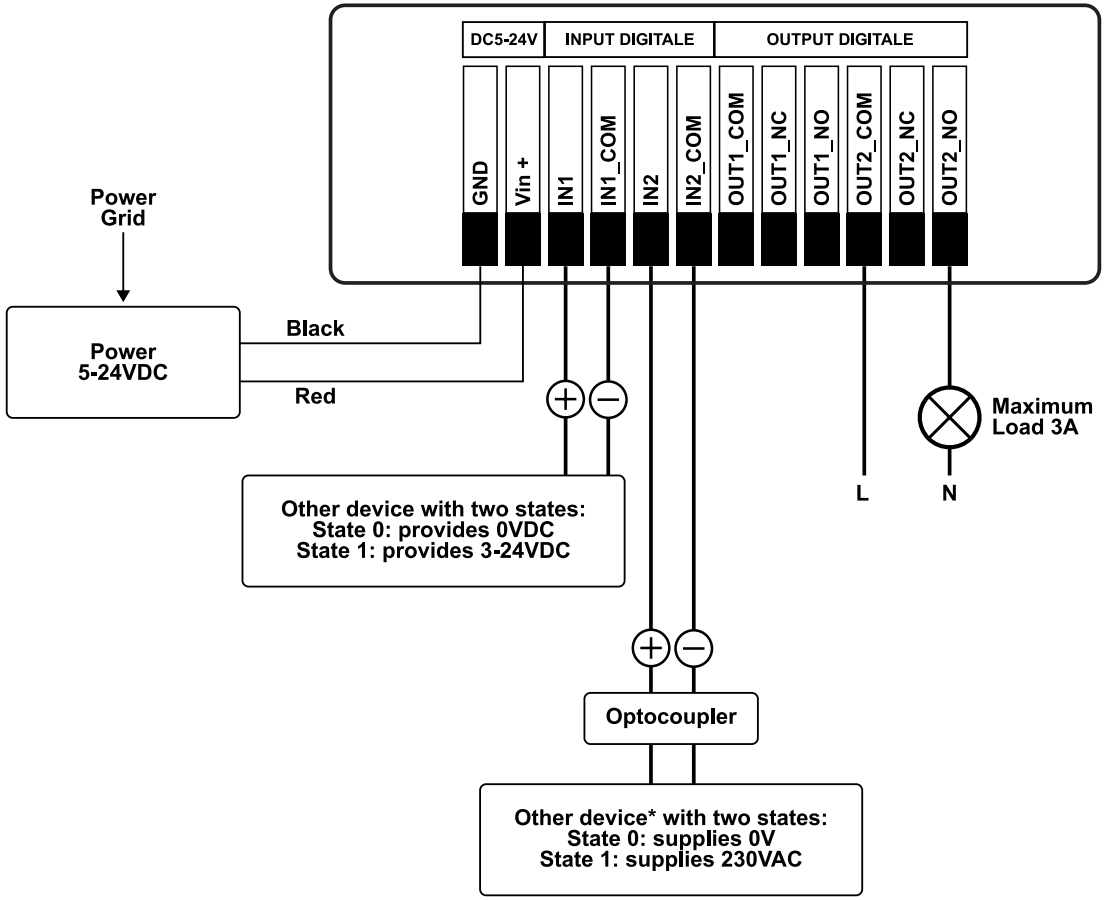


1. **Power 5-24VDC**
   Vin+: Positive terminal of the DC power supply (+)
   GND: Negative terminal of the DC power supply (-)
2. **Digital pins**
3. **Relay output**

Device mounting

Wall





* It is possible to interface other devices which supply a voltage alternating output or higher than 24VDC (for example a PIR) through the use of an optocoupler.

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