Optimo IoT **LoRaWAN Monitoring *kit***

Optimo IoT **LoRAWAN Monitoring *kit***: A complete solution for using **LoRaWAN sensors and actuators** that will allow you to **create a wireless monitoring and control system** integrated within the Optimo IoT system.

STEP 1 Select the LoRaWAN sensors

The **LoRaWAN** communication protocol allows the creation of **low-power, battery-powered wireless sensor networks** that transmit data over long distances without using cables for power or signal transmission.

Ask for help from **Optimo IoT technicians**, who will **select the most suitable LoRaWAN sensors** for your monitoring application.

LoRaWAN module for AL300

Connectable to the Optimo AL300 Gateway, it allows the direct integration of LoRaWAN devices. The AL300 acts as a Network Server, enabling communication with devices even without an internet connection.

LoRaWAN®

Remote temperature sensor

Battery-powered sensor for temperature measurement and wireless data transmission via the LoRaWAN network.

- Battery powered
- Wireless transmission
- ATEX environments version
- Immersion Pt100 probe

Remote pulse counter

Counts LED pulses and efficiently transmits data regarding energy, water, and gas consumption using the LoRaWAN network.

- Optical pulse reading
- Electrical pulse reading
- Meter monitoring
- Battery powered

Remote current sensor

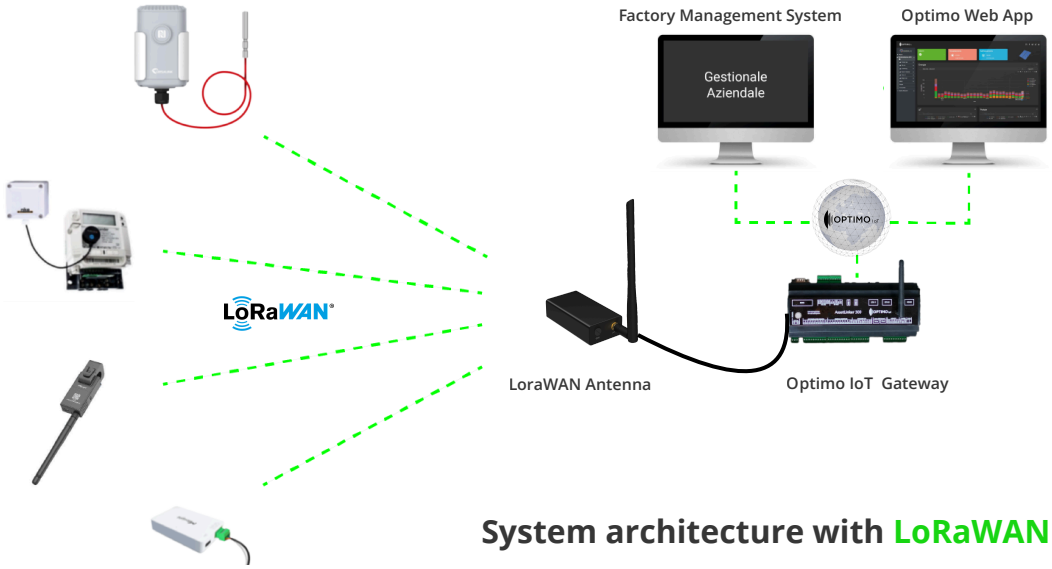
Accurately measures absorbed electrical current without batteries or cables, enabling remote monitoring through LoRaWAN connectivity. The sensor powers itself by utilizing the alternating current passing through the monitored cable.

- Easy to install
- Self-powered
- Instantaneous and cumulative current
- Capacity up to 300A

Modbus communication module

Read and write registers on Modbus RS485 devices via radio using the LoRaWAN wireless network. The module must be powered and connected to the serial bus. It supports up to 32 connected devices.

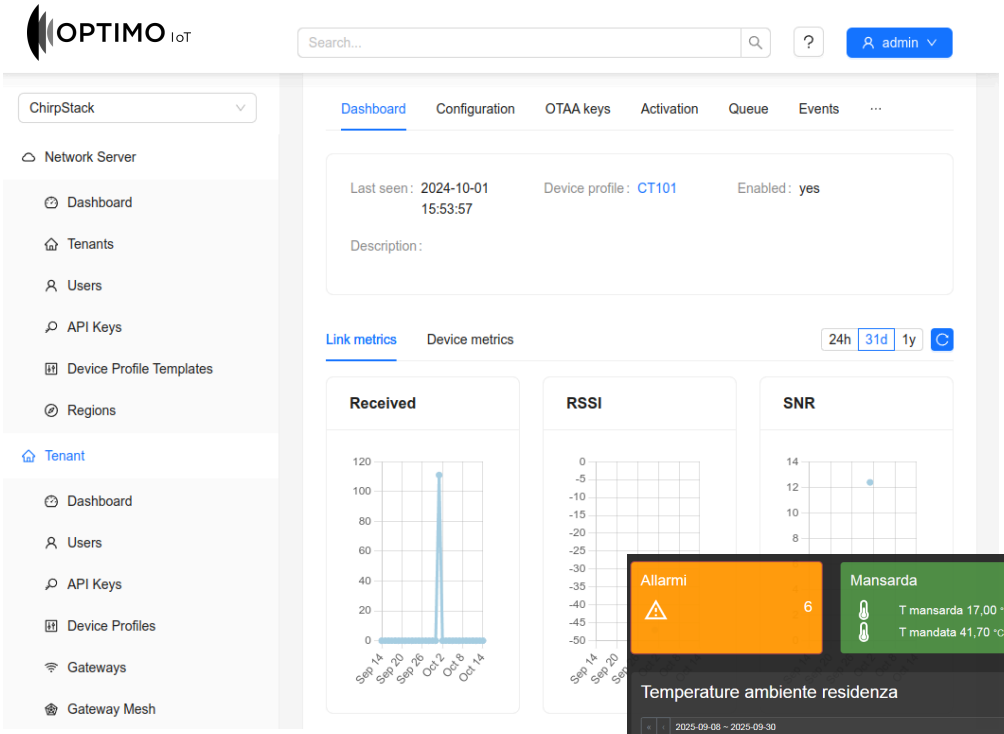
- Modbus RS-485
- Register reading and writing
- Wireless transmission
- 24V power supply



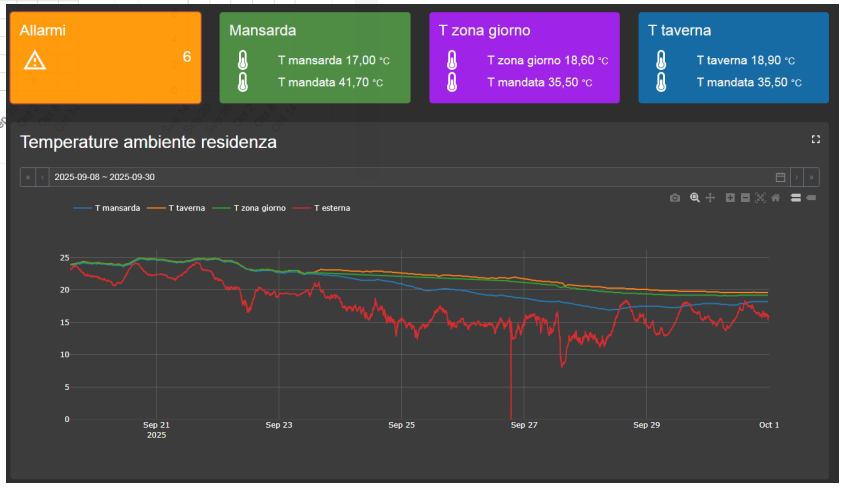
System architecture with LoRaWAN sensors

STEP 2 Configure system with LoRaWAN Network Server

The local web interface allows **pairing, configuration, monitoring, and debugging of connections** with LoRaWAN devices via the LoRaWAN Network Server available on our **AL300** gateway.



Configure the sensors with our LoRaWAN Network Server without leaving the Optimo IoT environment.



Prepare your cloud and local dashboards and integrate LoRaWAN sensor data with data from other monitored devices.

OPTIMO IoT

Contact us to learn more!

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