

SARA IoT

SARA IoT makes the airport SMART, allowing the management of the entire airport system with a single platform.

LoRaWAN technology, at the base of the application, allows efficient monitoring, guaranteeing reduced maintenance requirements, energy savings and low costs.



FEATURES

- Accessibility via web or APP (Android, iOS)
- Integrated into SARA environmental monitoring platform
- Reduced energy consumption
- Low costs
- Reduced need for maintenance

FUNCTIONALITIES

- Real time data management
- Alarm warning via SMS/Email
- Historic trend
- Interfacing with third-party systems
- User profile



SMART AIRPORT

• ENVIRONMENTAL MONITORING (INDOOR & OUTDOOR)

air quality (CO, CO₂, NO, NO₂,...)
 temperature
 humidity
 lighting
 noise

• SMART LIGHTING

light - dimming control
 light status

• WASTE MANAGEMENT

filling level of the garbage bins
 organize the garbage collect

• FLOW MEASURING

measures the flow of passenger in a specific area in real-time

• SMART TRACKERS

geolocation and tracking of movable objects (luggage trolleys, push-backs, ...)

• SMART METERING

energy consumption
 fluid control and measurement

• SMART PARKING

parking availability

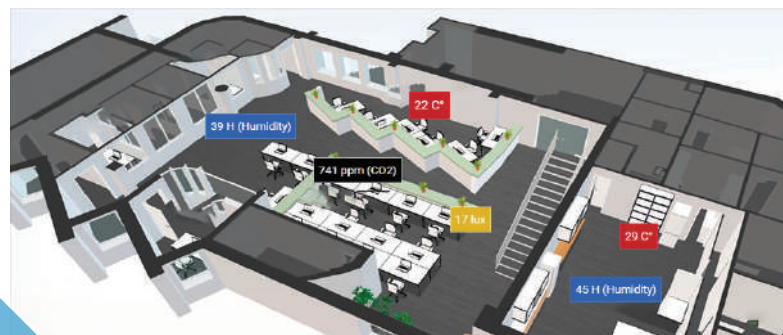
• SMART SECURITY

monitoring opening/closing):
 - gates
 - doors
 - fences
 - automatic gates



SARA

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ABOUT US

Founded in 1991, Softech develops products for monitoring and measuring noise, pollution and traffic in airports, highways and urban areas. It provides solutions for automation, supervision and infrastructural control in the industrial, service and communication fields



WHY LORA

LoRa is a low-cost, energy-efficient network technology capable of transmitting data over a large area wirelessly.

Extremely flexible and easy to install, compared to other technologies it allows to monitor a large number of factors in a qualitatively better way and guarantees lower infrastructure and maintenance costs.

WHY LoRa?



LoRaWAN TECHNOLOGY

LoRaWAN is an LPWAN specification that allows battery-powered devices to connect to a long-range IoT (Internet of Things) network using low bandwidth within a national, regional or global network.

This is an open, low-cost standard. It is a free network that does not require subscriptions for data consumption.

NETWORK ARCHITECTURE

The LoRaWAN network architecture uses a star topology, in which each end node communicates with multiple gateways, which in turn communicate with the network server.

The various nodes (LoRa sensors) collect the data and transmit it upstream to one or more gateways, from which they in turn receive data.

