spica Sense



SMART ROOM SOLUTION

Partnered with **INTEREL**

Basic Overview

We provide hotels with online guest room controls for lights, temperature, services enabling enhanced usability, energy management and IoT technologies in hospitality.

Traditional

Spica Sense

Requires big amount of electrical cable within a room



30% less cable within a room

Provides no ability to achieve efficient energy consumption



Up to 40% energy savings

Lack of comfort for guests



High guest satisfaction makes guests paying more

Offline systems require up to 3 people per service department



Operational efficiency makes human intervention redundant

System Overview & Layout

A On/Off Lighting Control

All relays of the RCU are rated at 10A for resistive loads and 2A inductive loads

B Thermoregulation

Fan Coil Unit: Control of floor heating, fan coil units, heaters, etc.

Actuator Valves: Control of on/off, floating and modulating valve actuators.

Integration with VRV/VRF systems

C Primary Field Devices

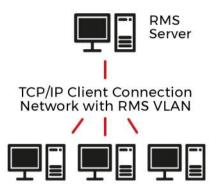








Operator Console and Central Monitoring Platform



F Curtain/Sheer control

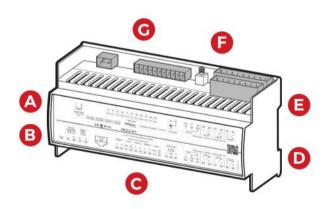
Multiple control options from 1 to 3 buttons with features like one-touch and hold/release.

G Sensors & Switches

Door / Window Contacts, Pulse Switches, Motion Sensors, etc.

Expansion Modules for dimming

The system is scalable and modular to meet various requirements.
Lighting Control capabilities include switching and dimming halogen and incandescent lights, LEDs, and Fluorescents. Supported dimming technologies include 0-10Vdc, leading edge dimming and trailing edge dimming. Supported Lighting protocols include DALI and DMX.



Wireless Communication



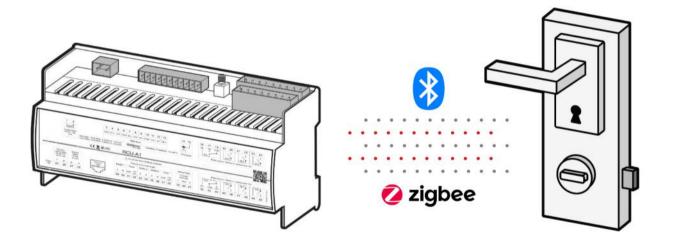




Door Lock Integration

- No single point of failure
- Advanced real time event exchange
- Enables mobile key technology
- No additional wiring for door lock system
- Most cost-effective way to network door locks





Can be integrated with:





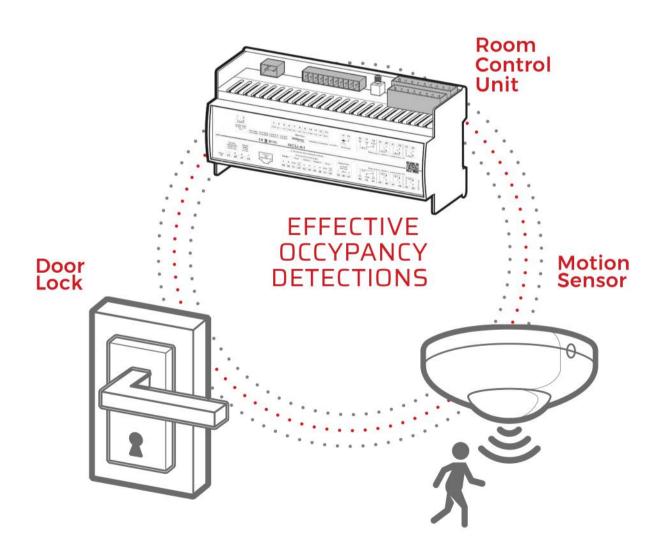




Door Lock Integration

Without integration between door locks and room management means:

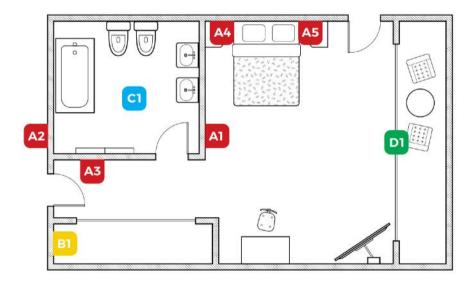
- A second network for the door locks is necessary and almost doubles the cost of the door lock system
- · Energy Management Systems that rely only on cardholders
 - can easily be undermined (e.g. use of second card)
 - will pose a roadblock to the implementation of mobile key
 - energy efficiency becomes questionable



Guest Room Management System - GRMS

Features / Advantages:

- · Simplified cable infrastructure
- · Control panels design according to the project requirements
- Intelligent lighting control
- DND/MUR & bell button built-in
- Speaker built-in the thermostat panel and can be distributed by being built-in in the other panels
- Motion sensors built-in all panels full coverage of the room







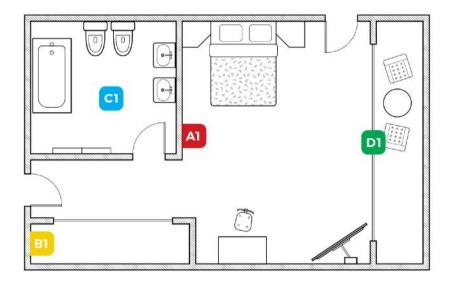




Energy Management System- EMS

Features / Advantages:

- User-friendly interface of the thermostat
- Intelligent climate control based on the access level (guest & staff different scenarios)
- · Room Level integration with the lock
- Online EMS & ACS
- TCP/IP, single IT infrastructure for EMS & ACS
- · Integration with PMS for maximum energy saving
- · Integration with BMS, minibar optional
- · Built-in motion sensors & temperature sensor





- B1 Room Control Unit
- C1 Celling Mounted Motion Sensor
- D1 Window Contacts

Panels

- · Internationally recognized icons
- Direct selection buttons -no menus and toggle buttons
- Built-in temperature and motion sensor
- Dimmable display & buttons
- Integration with PMS for maximum energy saving
- · Housekeeping staff locking
- Customized settings based on the Operator requirements

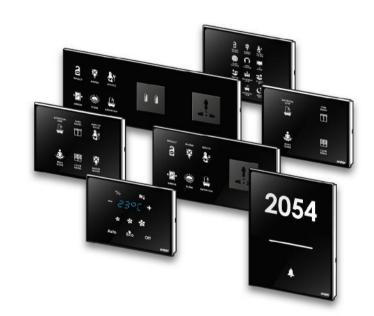




Colors are customizable



Sizes are customizable



700+RAL colors



Device color can be customized to match the interior design.



Energy Saving Case Study

- Property is 4 star, international brand
- Number of rooms: 181
- Location: Mediterranean coast



Overall Saving Per Year (Considering kWh=0.06€)	€	43,149
Overall System	KWh	719,154
Saving - AirCondition (35%)	KWh	596,605
Saving - Lighting (20%)	KWh	122,549
AirCondition System Consumption (45% of overall amount)	KWh	1.704,586
Lighting Appliances Consumption (25% of overall amount)	KWh	946,992
Overall Energy Consumption (in total)	KWh	3.787,969



spica Sense

Croatia

Špica Sustavi d.o.o. R. Cimermana 64b, Zagreb tel.: +385 1 6593 730 fax: +385 1 6593 738 e-mail: info@spica.hr

web: spica.hr

Montenegro

Špica International
Podgorica
e-mail: mido.andjelic@spica.com

Serbia

Špica Centar Bulevar Mihajla Pupina 165v, Novi Beograd web: spica.rs

Macedonia

Špica Sistemi III Makedonska brigada b.b. Skopje web: spica.com.mk

Bosnia & Herzegovina

Špica Systems Piljačna 6, Ilidža - Sarajevo web: spica.ba

Slovenia

Špica International d.o.o. Pot k sejmišču 33, Ljubljana web: spica.si