# **SENSOR HOTEL ROOM AUTOMATION SYSTEM**







**SENSOR-ONLINE SP. Z O.O.** 

The best solutions for hotels



#### **HOTEL vs. OFFICE**

#### differences affecting a different approach to "intelligence" of the building





**HOTEL** works 24 hours a day, the occupation changes dynamically

**TECHNICAL STAFF** does not have too high technical qualifications, the automation once configured, schould not require daily support

**GUESTS** come to the hotel for one, several nights at most; room equipment must be easy to use

**IN THE HOTEL** we focus on the guest and the room

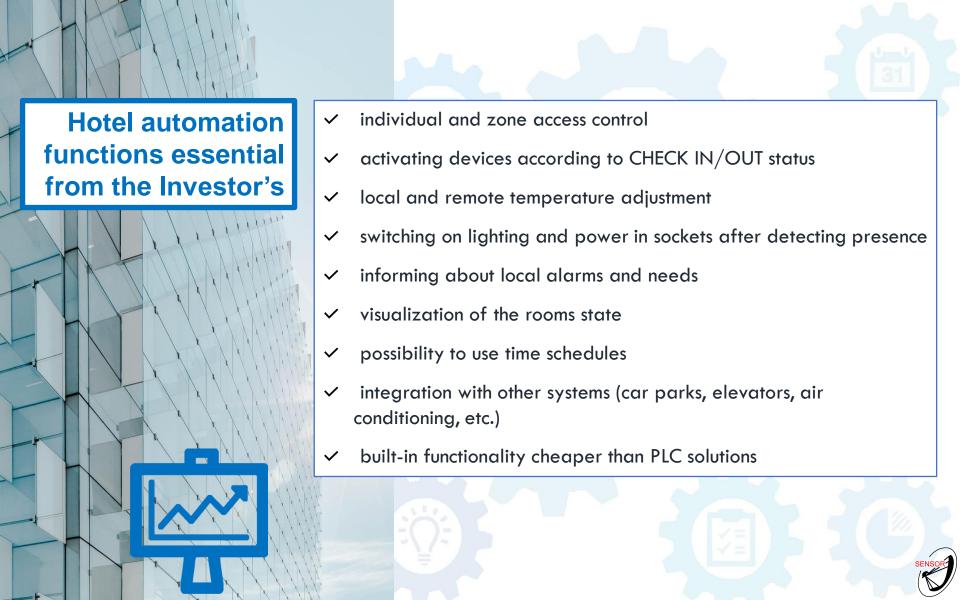
**OFFICE** works on a weekly basis with fixed working hours and weekends off

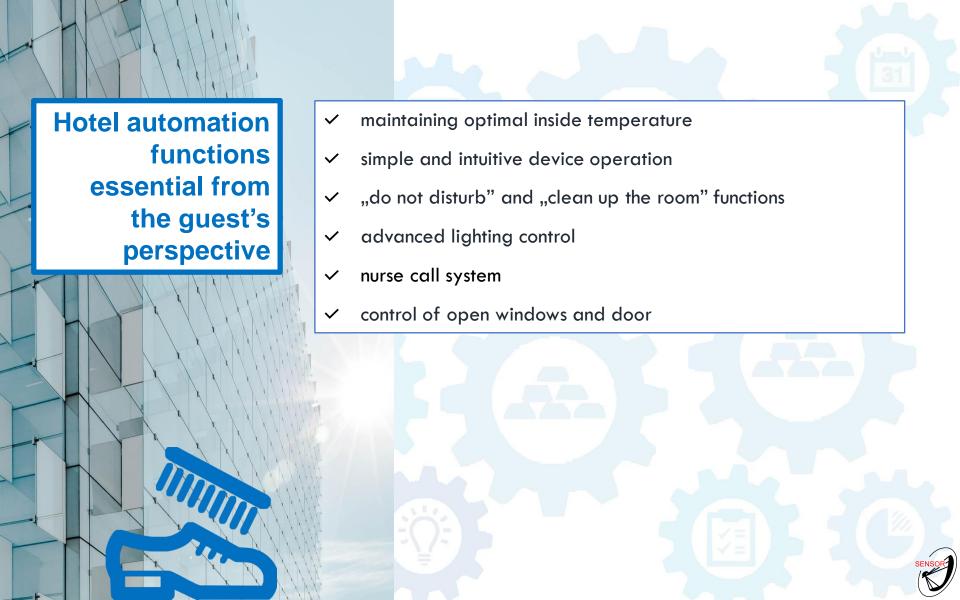
**TECHNICAL STAFF** is regularly trained and monitors the operation of building systems on a daily basis, which allows for their greater complexity

**OFFICE EMPLOYEES** change at a relatively slow pace, so they have time to learn and get used to operating more advanced automation

**IN THE OFFICE** we focus on managing according to the weekly rhythm of work, access control and maintaining an appropriate indoor temperature



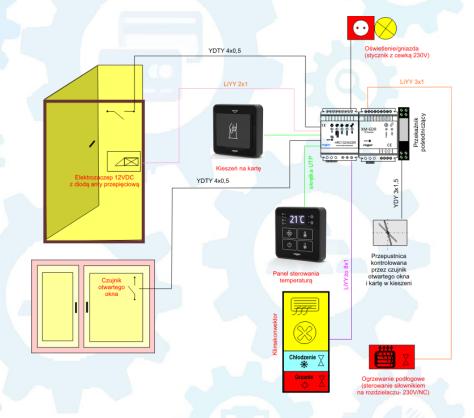




### **Hotel Automation in practice**

#### 1. Air conditioning functionality:

- ✓ 2 or 4 pipe fan coil units
- Modbus connectivity option
- reacting to room status (check in/out)
- activating with the employee's card
- ✓ seasonality WINTER/SUMMER
- ✓ ON/OFF simple control
- ✓ limitations in temperatur control
- ✓ comfort temperature
- ✓ open window sensor
- √ "anti-freeze" temperature
- temperature alarms





#### 2. Power control:

- ✓ welcome light
- ✓ smart card holder
- ✓ delay after card withdrawal
- ✓ additional LED signaling
- distinguishing between guest and employee

#### 3. Communication with the reception:

- ✓ "Do not disturb"
- ✓ "Clean up the room"
- ✓ "Luggage"
- ✓ "Room service"
- ✓ Lighting control

#### 4. Signaling in the corridor:

- ✓ the presence of a guest
- ✓ guest's requests
- emergency situation
- ✓ visual and acoustic signaling







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#### 5. Employee activity analysis

- ✓ card in holder simple presence control
- ✓ working time

#### 6. Minibar control

- ✓ open door sensor
- electric lock





# 7. Emergency call system for the disabled

- ✓ signaling on the reader and a dedicated lamp
- ✓ authorization for use
- ✓ two-stage alarm
- ✓ alarm place indentification bathroom/salon
- ✓ authorized mute and reset
- ✓ information on selected workstations

#### 8. Alarm instalation

- ✓ force entry alarm
- ✓ door ajar

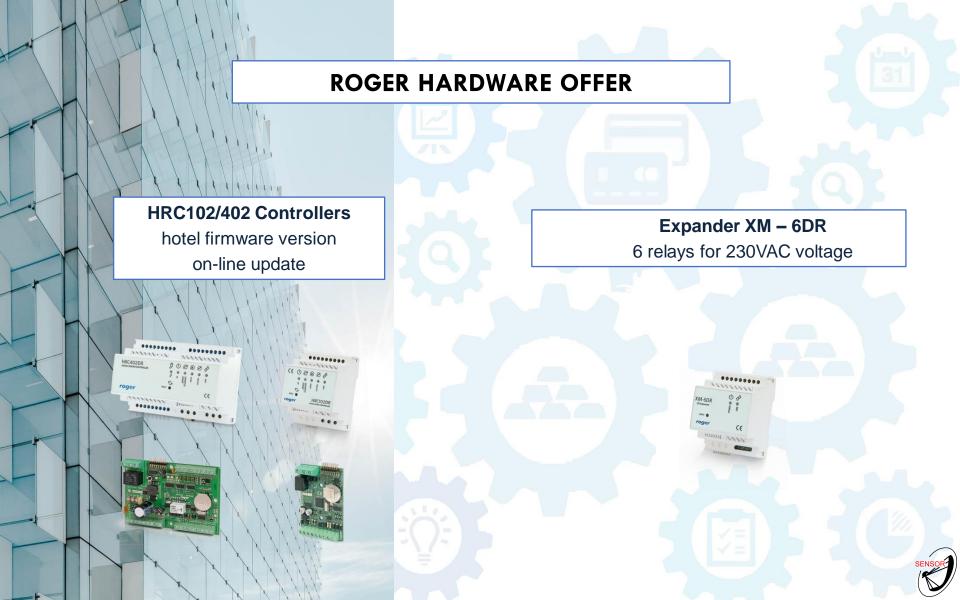








#### Clear visualization 802 663 28°C 22°C 17 8°C ❖ 24 3°C☆ 23 2°C♥ () 25°C 19 3°C ♦ () 25 **4°**C 23 5°C 25°C 24 3°C 23 2°C 25 **4**°C 23 5°C 24 5°C 201 24 7°C 23 2°C 23 5°C\_ 288 2.0 214 25°C 26 5°C 🌣 ( 24 3°C 25 4°C\_ 23 2°C 23 5°C









MIFARE card reader
4 x LED as outputs
doorbell buton as input

#### **FUNCTION KEYS PANEL**

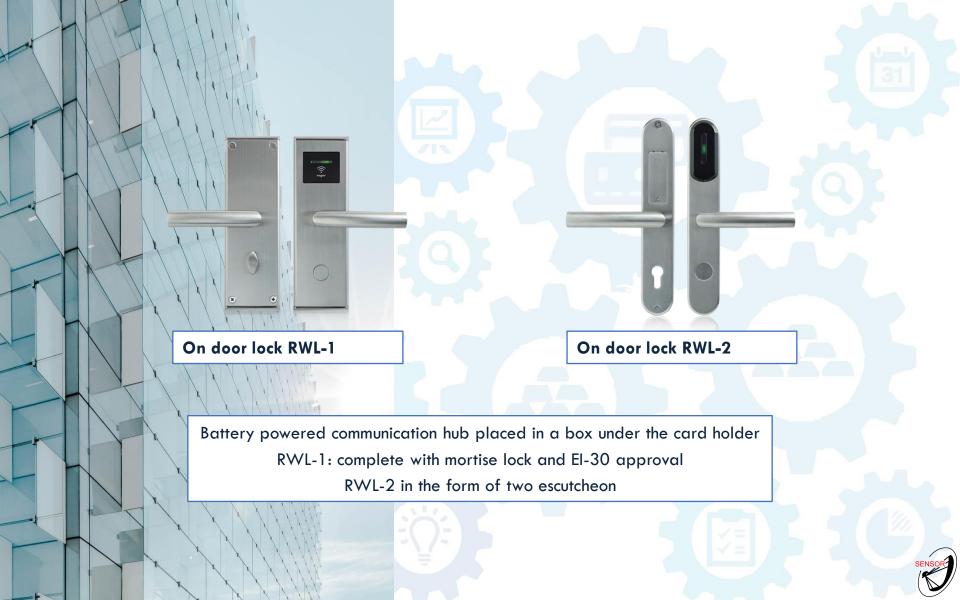
4 x LED as outputs four touch keys as inputs

#### **SMART CARD HOLDER**

MIFARE card reader
2 x LED as outputs
temperature measurement







# SIMILARITIES AND DIFFERENCES BETWEEN RACS 4 AND THE HOTEL VERSION

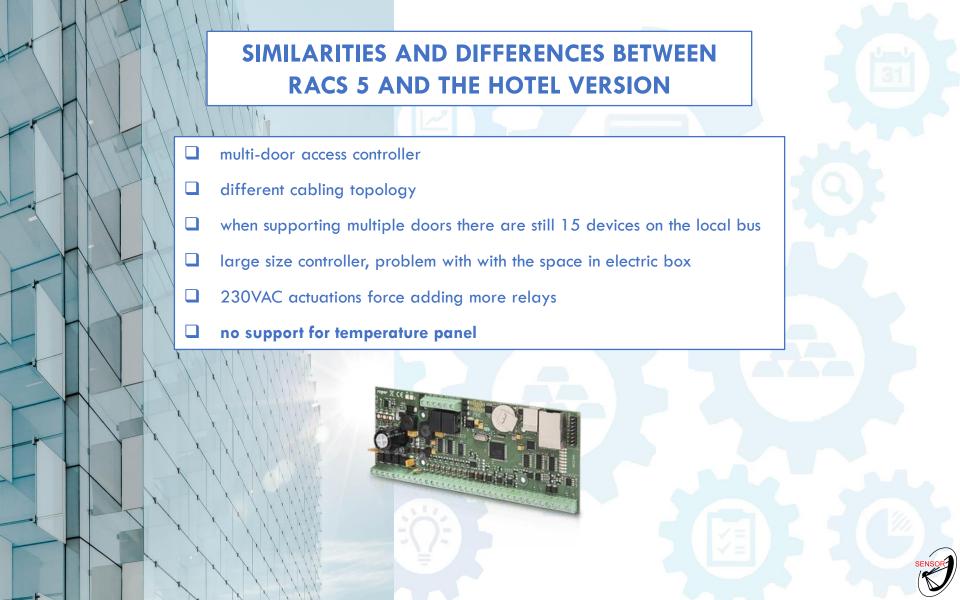
- various communication protocols no suport for HRC controllers in the RACS system
- dedicated series of devices not supported by the RACS system
- ☐ the ability to support standard PRTxx readers
- without the possibility of operating the controllers integrated with the reader
- the ability to control lighting and other devices
- remote temperature measurement (sensor, card holder, AC panel)
- "muted" devices
- different "philosophy" of issuing cards











#### **FINAL REMARKS**



Using the full functionality of SENSOR AUTOMATION SYSTEM decline measurably operating costs.

Investors often do not know how advanced systems they purchased.



Extensive cabling does not force you to run all the functionality from the very beginning – it can be done in stages.



With lower and lower energy consumption by lighting and RTV equipment, savings related to room climate control (heating and cooling depending on the presence status) become more important



Rethinking the functionality at the design stage allows you to create an open solution that allows for further expansion, which does not expose you to the costs of additional cabling

## ONE SYSTEM, MANY FUNCTIONS A LOT OF SAVINGS



Access control



Communication with the reception

11111



Signaling in the corridor



**Notification module** 



Temperature control



Activity analysis employees



**Clear visualization** 



Emergency call system



**Power control** 



Minibar control



Alarm system



Remote management

# **COOPERATE WITH US**







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