



**WIRELESS HOTEL BUILDING
AUTOMATION SYSTEM**

OUTLINE OF TOPICS

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SMART HOTEL



HCS VISION is an innovative wireless building automation system for hotels and resorts made up of room devices and management software that interact with each other to automate and control hotel functions.

HCS VISION interacts with the lighting, heating, security and air conditioning systems and services requests, which are easily controlled through a single interface in the software, allowing the hotel staff to manage and control the hotel efficiently.

The features offered by HCS VISION make it possible to collect data, monitor services, automate many functions and share information in real time, together with the management of many tasks that would otherwise be handled manually. Thanks to this SMART management of the hotel guaranteed by HCS VISION, owners and management can improve operational efficiency, reduce costs, provide better services to their customers and, at the same time, contribute to the protection of the environment.

THINK ABOUT IT

**"Your guests can forget
what you said or what you did,
but they'll never forget how
you made them feel"**

MAYA ANGELOU



A NECESSARY SYSTEM FOR YOUR HOTEL



CUSTOMIZATION

HCS VISION allows customizing the environment according to guests' preferences, such as changing the temperature, lighting and privacy, offering a more comfortable and satisfying stay.



MORE SECURITY

Through its devices, HCS VISION offers advanced security features, such as access and presence control and alarms, ensuring a safer environment for both hotel guests and staff.



MORE CONTROL

Thanks to an intuitive interface, guests can manage different aspects of the room and request for services, providing a more interactive and technologically advanced experience.



MORE EFFICIENCY

HCS VISION simplifies room management, allowing monitoring and controlling the emission of electricity, air conditioning, services and technological aspects, optimizing operations and reducing costs.

HCS VISION system has a modern and ergonomic design and extremely thin and elegant devices. It offers a technologically advanced, efficient, secure, and personalized environment for guests, enhancing the stay experience and providing significant operational benefits for the hotel.

HCS VISION's smart room guarantees a more modern and personalized stay experience, increasing overall satisfaction and the reputation of the hotel.

HOW IT WORKS

THE NET HCS[®] VISION

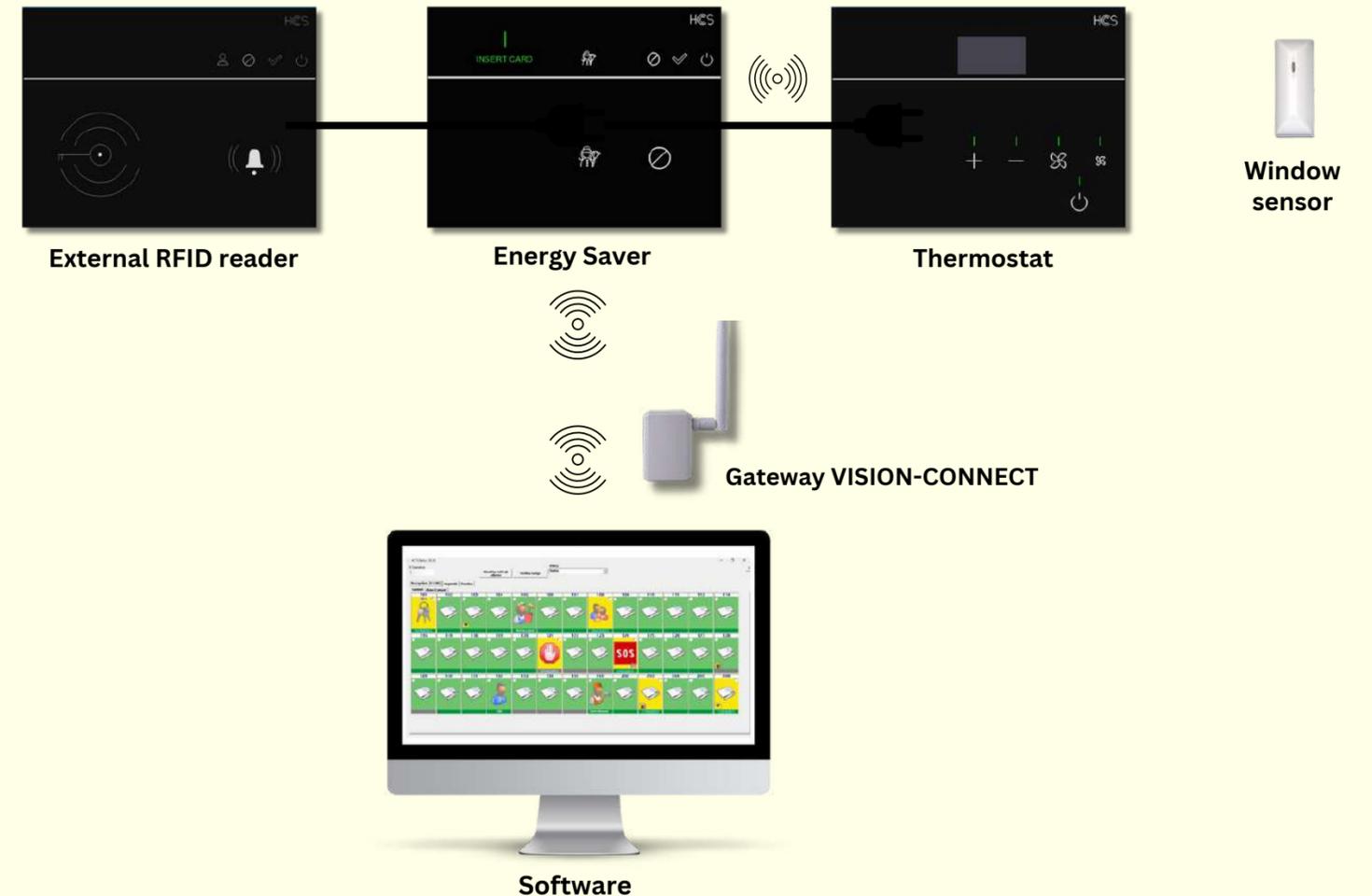
HCS VISION is made up of elegant devices installed in the rooms:

- EXTERNAL RFID READER / ACCESS CONTROL
- INTERNAL CARD READER ENERGY SAVER
- THERMOSTAT
- WINDOW SENSOR

In addition, it includes the **RECEPTION KIT** consisting of:

- SOFTWARE
- GATEWAY VISION-CONNECT.

The devices installed in the rooms and the software communicate with each other through the GATEWAY VISION-CONNECT thanks to Zig-Bee wireless transmission, guaranteeing real-time control and management of the hotel.



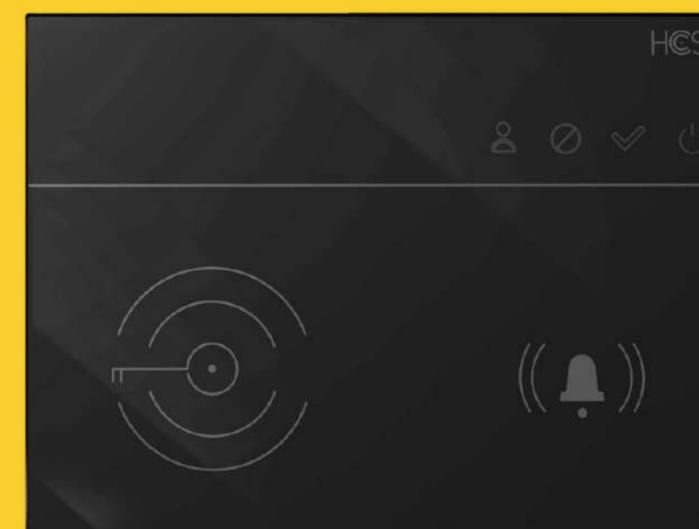
The wall reader is installed on the wall outside the room, and it is connected via RS485 to the internal reader. It opens the door when the RFID card enabled during check-in approaches. LEDs show the presence of the customer in the room, the activation of "Do Not Disturb" and the request for cleaning. It is also equipped with a bell.

The device can be installed in any area of the hotel where access control is required, such as meeting rooms, sensitive areas, offices, warehouses, parking, Spa, gyms, etc. It can also be used to open an automatic door, and thanks to a special waterproof and fireproof treatment, it can be installed outdoors. It is also available in a digital numeric keypad version.

TECHNICAL INFORMATION:

- STM 32BIT 64MHZ PROCESSOR
- NFC READER FOR MIFARE 1K CARD RECOGNITION
- 5MM PITCH TERMINAL BLOCK WITH 10 PINS WITH QUICK CONNECTION
- 32KB MEMORY, OPTIONAL, FOR DATA MANAGEMENT
- SIGNALING BUZZER
- TOUCH KEYBOARD WITH 1 BUTTON EXPANDABLE UP TO 10
- ROOM STATUS SIGNAL LED\DO NOT DISTURB\ROOM CLEANING
- RS485 SERIAL COMMUNICATION INTERFACE
- REVERSE POLARITY AND OVERLOAD PROTECTION
- POWER SUPPLY 12V DC +-10%
- DIMENSIONS 120X90X12MM IN BLACK ABS V0
- 3MM TEMPERED GLASS WITH POLISHED EDGE, TEMPERED SCREEN PRINTING
- 2 PROGRAMMABLE DIGITAL OUTPUTS 12V 300mA
- 2 PROGRAMMABLE DIGITAL INPUTS 12v 300mA

WALL RFID KEYCARD READER



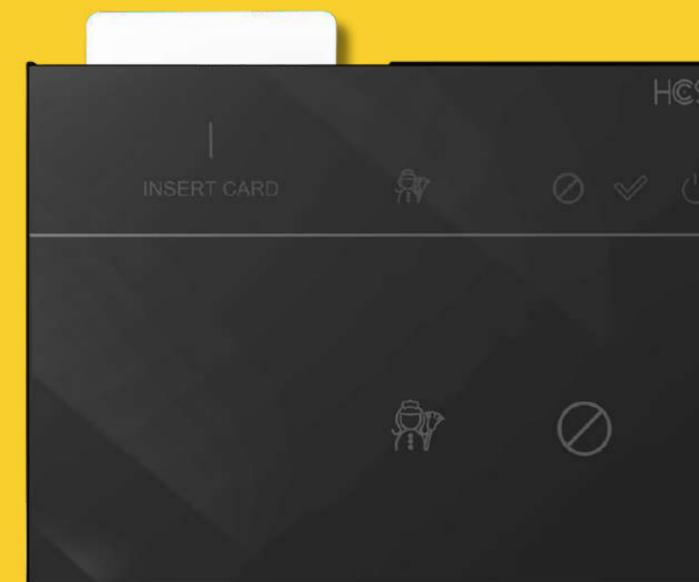
The Energy Saver - internal reader connects all room devices to the software via the VISION-CONNECT GATEWAY, with which it communicates directly thanks to the wireless ZIG-BEE transmission. The reader is installed on the wall inside the room, near the entrance door. When the enabled RFID keycard is inserted, it turns on the lighting and air conditioning system, showing the presence of the guest or authorized personnel inside the room in real time. The reader is equipped with touch buttons for the requests of services and to show the room status, which are displayed in the software and in the external reader:

- Do not disturb
- Cleaning request
- Room cleaned
- Performed maintenance

TECHNICAL INFORMATION:

- STM 32BIT 64MHZ PROCESSOR
- NFC READER FOR MIFARE 1K CARD RECOGNITION
- ZIG-BEE RADIO MODULE WITH INTEGRATED ANTENNA
- REAL TIME CLOCK WITH CR 2032 BATTERY
- 5MM PITCH TERMINAL BLOCK WITH 10 PINS WITH QUICK CONNECTION
- 32KB MEMORY FOR DATA MANAGEMENT
- SIGNALING BUZZER
- TOUCH KEYBOARD WITH 2 BUTTONS EXPANDABLE UP TO 10
- CUSTOMIZABLE SIGNALING LEDES
- RS485 SERIAL COMMUNICATION INTERFACE
- REVERSE POLARITY AND OVERLOAD PROTECTION
- POWER SUPPLY 12V DC +-10%
- DIMENSIONS 120X90X12MM IN BLACK ABS V0
- 3MM TEMPERED GLASS WITH POLISHED EDGE, TEMPERED SCREEN PRINTING
- 2 PROGRAMMABLE DIGITAL OUTPUTS 12V 300mA
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ENERGY SAVER



The thermostat controls and manages the room temperature, switching it on and off. The parameters are set and managed in the software, as well as the comfort temperature, which is active when the guest is not in the room or with the room in “check-in” status. It communicates with the window sensor, turning off the air conditioning when it is opened. Thanks to its technical characteristics, the thermostat can be connected and interfaced with any kind of air conditioning system.

TECHNICAL INFORMATION:

- STM 32BIT 64MHZ PROCESSOR
- 3 12/4/3 PIN 5MM PITCH QUICK CONNECT TERMINAL BLOCKS
- ZIG-BEE RADIO MODULE WITH INTEGRATED ANTENNA
- 32KB MEMORY FOR DATA MANAGEMENT
- TEMPERATURE SENSOR $\pm 0.2^{\circ}\text{C}$
- HUMIDITY SENSOR $\pm 2.5\% \text{ RH}$
- 1.3" OLED DISPLAY WITH ADAPTIVE BRIGHTNESS CONTROL
- RS485 SERIAL COMMUNICATION INTERFACE
- REVERSE POLARITY AND OVERLOAD PROTECTION
- POWER SUPPLY 12V DC $\pm 10\%$
- 5 250V Ac -30VDC 1A RELAYS FOR CONTROLLING:
 - HOT/COLD WATER SOLENOID VALVES
 - FAN COIL SPEED CONTROL, SWITCHING ON AND OFF
- 0-10 V OUTPUT FOR SPEED MODULATION
- OPTIONAL IR OUTPUT FOR MONO SPLIT CONTROL
- DIMENSIONS 120X90X12MM IN BLACK ABS V0
- 3MM TEMPERED GLASS WITH POLISHED EDGE,TEMPERED SCREEN PRINTING
- 5-KEY TOUCH KEYPAD (TEMPERATURE ADJUSTMENT, ON/OFF, FAN SPEED ADJUSTMENT)
- INFRARED SENSOR TO CONTROL REMOTE FAN-COIL/SPLIT
- 2 PROGRAMMABLE DIGITAL INPUTS

THERMOSTAT





WINDOW SENSOR

The sensor is installed in the window and controls its opening. It communicates directly with the thermostat, turning off the air conditioning when the window is opened.

It shows the status of the window to the software in real time: whether it is open or closed, or any attempts to force it from outside, or when the room is empty.



LIGHT CONTROL SCREEN

These elegant panels are installed near the beds to control the turning off or on of the lights and the closing or opening of the room curtains, offering the desired lighting to the guests.



RECEPTION KIT

SOFTWARE

HCS VISION system includes the RECEPTION KIT, made up of management software dedicated to specific operational areas of the hotel with different access levels:

- "HCS-Status": dedicated to receptionists
- "HCS-Gestione": dedicated to hotel management (owners, management, safety and maintenance managers, housekeepers).

The software sends and receives information from the HCS VISION devices through the VISION-CONNECT GATEWAY. In this way, important information is displayed at the reception in real time, allowing to offer useful services in a simple and efficient way.

Thanks to the software, many useful services can be performed easily from the reception with simple operations:

- Open a room door.
- Turn the lights on or off.
- Manage room temperatures or turn the thermostat on/off.
- Change the room.
- Request room cleaning or maintenance.
- Extend the stay of guests.
- Quick check-in and check-out operations.
- Facilitated group check-in operations.
- Check the membership of an RFID card and/or disable it.

The software is compatible with the most popular PMS systems and can be installed on different workstations.



GATEWAY VISION-CONNECT

The VISION-CONNECT GATEWAY transmits information between the HCS VISION devices and the software via an exclusive encrypted wireless ZIG-BEE protocol. Each VISION-CONNECT GATEWAY manages up to 60 rooms, regardless of the distance or location of the rooms and the software.

TECHNICAL INFORMATION:

- ETHERNET COMMUNICATION INTERFACE FOR CONNECTION TO MANAGEMENT SOFTWARE
- 12V DC POWER SUPPLY
- ZIG-BEE 2.4 GHZ RADIO MODULE WITH EXTERNAL ANTENNA FOR INTERCONNECTION TO THE HCS VISION NETWORK



BENEFITS

ALL-IN-ONE SMART HOTEL



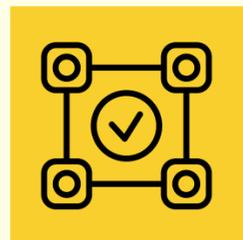
Energy efficiency



Fast installation



Operational efficiency



Adaptability

ENERGY EFFICIENCY



THANKS TO THE ENERGY EFFICIENCY GUARANTEED BY HCS VISION, THE HOTEL BECOMES ECO-FRIENDLY, THUS OFFERING GREAT BENEFITS.

ENERGY SAVING

HCS VISION guarantees **tested energy saving of up to 47%** and the consequent reduction in energy consumption, with a significant benefit on management costs.

PROMOTION OF A SUSTAINABLE LIFESTYLE

Eco-friendly hotels encourage guests to behave in an eco-sustainable way, by providing information and practices to reduce the environmental impact of their actions.

GREATER ATTRACTIVENESS

Eco-friendly hotels become an interesting option for guests looking for a sustainable stay experience. Furthermore, choosing a sustainable lifestyle represents a positive contribution to environmental protection.

FAST INSTALLATION



Thanks to the ZIG-BEE wireless transmission and the new concept of HCS VISION devices, installation is extremely simple and fast, as they are made to be operational immediately.

- Installable in a few minutes.
- No need to change existing locks or doors.
- No need to close the hotel or make the room unusable.
- The devices have no batteries and are maintenance-free.
- No use of presence or infrared sensors.
- The system can be installed in any type of structure of any size.
- Modular devices, which can also be installed at different times.

OPERATIONAL EFFICIENCY



The management software allows controlling and managing the rooms and all areas of the hotel equipped with the system's devices in real time, directly from the reception. The benefits offered by online management are a real innovation for any type of hotel. The hotel management becomes very agile, allowing reception operators, managers, maintainers, housekeepers, and security personnel to work more efficiently and quickly, making their jobs easier.

Furthermore, both the software and the HCS VISION devices are intuitive and easy to use, thus offering greater efficiency to all hotel staff.

ONLINE CONTROL

The software controls the presence of the staff in the rooms (cleaners, maintainers, minibar attendants, etc.), checking the timing of their work and their stay in real time. All this data is also recorded in the software, creating useful reports that can be consulted at any time.

SECURITY AND COMFORT

Alarms, unauthorized access attempts, door or window openings, the presence of customers or staff in the rooms, access and alarm reports, and much more are monitored directly in the software in real time, guaranteeing great security and comfort to both hotel guests and staff.

TECHNICAL EFFICIENCY

Technical problems, breakdowns, breakages, and maintenance to be carried out and solved: all this is monitored and managed online directly by the software, allowing maintenance to be carried out quickly and showing the status of the room at the reception in real time.



ADAPTABILITY

HCS VISION is adaptable to any kind of hotel since it is designed to be flexible and customizable according to the specific needs of each building, satisfying a wide range of hotels, from small ones to big and luxury resorts.

Flexibility, customization, and adaptability make HCS VISION a versatile and effective solution for any type of hotel building.



- **MODULARITY**

HCS VISION devices can be implemented at different times based on the specific needs of the hotel, allowing a customized installation.

- **INTEGRATION**

HCS VISION can be integrated with other existing technologies and systems, such as the air conditioning ones.

- **UPDATES**

The system is designed to be updated, allowing the hotel to stay abreast of the latest technology and trends.



Our team is always available to offer the best solution suitable for your hotel

DATA COLLECTION

We collect all the necessary information about the hotel building.



EVALUATION

We consider the best solution based on the data received and the customer's requests.



PROPOSAL

We develop and present the best personalized proposal, in order to meet the needs of each hotel.

CONTACT US

FOR MORE INFO
OR REQUEST



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