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1. GRMS IQ

1.1. Standard Room, Suite, Apartment or Glamping

GRMS IQ is a unified guest room management solution based on a Master Controller architecture, touch interfaces, smart presence detection, and integrated room automation functions. It is designed for standard hotel rooms, suites, apartments, and glamping units, combining digital access, HVAC, lighting, energy-saving logic, and room status management within one system.

1.2. Components and Order Codes

Component	Order Code	Schematic
Corridor access panel	CR-D1-B	CR-D1-B
Electromagnetic Lock	EL-B	EL-B
Temperature Sensor	ES-W2-WH	ES-P
Room control panel	TGP-4D-01-IQ / TGP-S	TGP-S
Bus Coupler	CAD-BC	CAD-BC
IEX-2 cable	CAD-Px	CAD-Px
HVAC Controller	FC	FC
Motion Sensor	IR-R-IW-WH	IR-R-IW-WH
Opening Sensor	MOS-03-HD-WH	MOS-03-HD-WH
Light		Light
Light switch		Light Switch
Hotel Room Controller	MC-24-H1	MC-24-H1
Power Supply	HDR-30-24	HDR-30-24
Linker	IOT-L3-3	IOT-L3-3

1.3. Hardware baseline

- **Master Controller (MC)**
- **Corridor unit with 4'' touchscreen and QR/RFID reader**
  - hotel logo for personalization
  - room number display
  - bell
  - DND / MUR / SOS statuses
  - access control via PIN / RFID / QR / iBeacon
- **In-room 4'' touchscreen**
  - DND / MUR control
  - HVAC setpoint adjustment

    - welcome screen with hotel logo
    - QR code for guest web app access
- **Presence sensor**
    - no card holder needed
    - window and door contacts
- **I/O for**
    - master light
    - energy saving
    - main room lights
    - bathroom light / fan
    - HVAC (valves / speeds / temperature)

1.4. Functions

1.4.1. Digital access and check-in

- Digital key issuance after PMS reservation
- Self-check-in and kiosk compatible
- Support for PIN, RFID, QR, and iBeacon-based access
- All access events are logged locally and synchronized with the server

1.4.2. Guest comfort and room control

- Welcome light and scene presets
- In-room touch control for lighting, HVAC, and room functions
- Guest web app with no installation required
    - QR code displayed on the room touch panel or iPaper on the room wall
    - guest scans the QR code
    - enters PIN
    - instantly controls lighting, HVAC, and scenes from their phone

1.4.3. Energy saving and room logic

- Presence-based energy saving without a card holder
- Window / door to HVAC interlock
- Automatic reset to default values when changing guests
- Integrated energy-saving logic for occupied and unoccupied room states

1.4.4. Room status and staff visibility

- Room statuses: **SOS, DND, MUR**
- Statuses visible to reception and housekeeping
- Remote monitoring and control for reception and operators

1.4.5. Safety and monitoring

- The temperature sensor also serves as an additional fire-alert sensor
- Remote supervision of room conditions and system states

1.5. Key benefits

- No card holder required
- Faster and simpler guest access
- Improved operational visibility for reception and housekeeping
- Better guest comfort through integrated room control
- Reduced energy consumption through presence-based automation
- Flexible deployment for hotel rooms, suites, apartments, and glamping units