

V1 - GRMS Room Base - MC-24-H1

General description

V1 - GRMS Room Base - MC-24-H1 is the base standard GRMS room variant for a full hotel room automation system based on the **MC-24-H1** hotel room controller.

This configuration is intended for standard hotel rooms where the GRMS system manages access control, guest room control, HVAC, lighting, blinds, room presence, window status, energy-saving logic and communication with the central S-RMS system through Linker.

V1 is the reference configuration for other MC-24-H1 based room variants.

Typical use

This variant is suitable for rooms requiring a complete standard GRMS setup with:

- corridor access panel
- door lock and door status
- in-room touch panel with TGP-S adapter
- ES-W2 room temperature sensor
- fan-coil regulation through FC-1-IQ
- standard lighting circuits
- one blind group
- presence detection
- window contact monitoring
- SOS input
- master off function
- floor heating and ventilation output
- energy-saving logic
- Ethernet / Linker connection to S-RMS

Main components

Group	Component code	Description
Room controller	MC-24-H1	Main hotel room controller for local room automation, I/O handling and Ethernet communication.
Power supply	HDR-30-24	24 VDC power supply for controller and bus devices.
Bus interface	CAD-BC	Bus coupler used to connect MC-24-H1 to IEX bus devices.

Group	Component code	Description
Corridor access panel	CR-D1-V2-PX-BK	Corridor-side access panel for room access, door status and lock control.
Door lock	EL-B / EL-N	Electric door strike, selected according to door type and installation requirements.
Room touch panel assembly	TGP-4D-01-IQ + TGP-S	In-room 4 inch touch HMI panel with TGP-S adapter/interface board for connecting the ES-W2 room temperature sensor.
Room temperature sensor	ES-W2-WH / ES-W2-BK	Room temperature sensor connected through TGP-S and used for HVAC regulation and room comfort control.
Fan-coil module	FC-1-IQ	3-speed fan coil actuator for fan and valve control.
Room PIR sensor	IR-R-IW-WH / IR-R-OW-WH	Presence / motion sensor for occupancy and energy-saving logic.
Window contact	MOS-03-HD-WH / MOS-04-VS-WH / MOS-04-VS-BK	Wired magnetic opening sensor for window status and HVAC interlock.
Network	Ethernet / Linker	Connection to S-RMS.

Connected room functions

Function	Connected elements
Access control	CR-D1-V2-PX-BK, EL-B / EL-N, door reed sensor, RFID / QR / PIN depending on panel configuration.
Guest interface	TGP-4D-01-IQ room touch panel with TGP-S adapter and room commands.
Room temperature	ES-W2-WH / ES-W2-BK connected through TGP-S.
HVAC	FC-1-IQ, fan-coil valves, 3-speed fan, ES-W2 room temperature sensor and window interlock.
Lighting	Standard room lighting circuits, including welcome light.
Blinds	One motorized blind group with up/down control.
Energy saving	IR-R-IW-WH / IR-R-OW-WH, window contact, managed power supply and master off function.
Safety / alarm	SOS input and room status reporting.
Central system	Ethernet connection to Linker and S-RMS.

Notes

- V1 is the base standard full-room configuration.
- It should be used as the reference for standard MC-24-H1 based GRMS rooms.
- TGP-S is part of the room touch panel assembly and is used as the interface board for connecting the ES-W2 room temperature sensor.
- Detailed I/O allocation is defined in the electrical scheme and technical documentation.