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# Standard room variants

## General description

This section describes standard GRMS room variants used as reference configurations for HIQ Hospitality projects.

Each variant defines a typical guest room automation setup, including the main controller, access control, room panel, HVAC control, lighting, blinds, sensors, communication modules and connection to the central S-RMS system through Linker.

The purpose of these pages is to provide a clear technical overview of available standard room configurations. Detailed wiring, I/O allocation, programming and project-specific adaptations are defined in the corresponding electrical schemes and technical documentation.

## Room variant overview

| Variant | Page | Main controller | Short description |
|---|---|---|---|
| V1 | V1 - GRMS Room Base - MC-24-H1 | MC-24-H1 | Base full GRMS room with CR-D1-V2-PX-BK, TGP-4D-01-IQ + TGP-S, ES-W2, FC-1-IQ, lighting, blinds, sensors and energy-saving logic. |
| V1.1 | V1.1 - GRMS Room Base I/O Plus - MC-24-H1 + LC-10-IQ-MK2 | MC-24-H1 | Base room with LC-10-IQ-MK2 module for additional lighting circuits and blinds. |
| V1.2 | V1.2 - GRMS Room Base Modbus - MC-24-H1 + CAD-232-A3-IQ | MC-24-H1 | Base room with RS485 / Modbus communication through CAD-232-A3-IQ. |
| V1.3 | V1.3 - GRMS Room Full Option - MC-24-H1 + LC-10-IQ-MK2 + CAD-232-A3-IQ | MC-24-H1 | Full option MC-24-H1 room with LC-10-IQ-MK2 expansion and RS485 communication through CAD-232-A3-IQ. |
| V2 | V2 - GRMS Room Direct HVAC - MC-24-H1 | MC-24-H1 | Simplified MC-24-H1 variant where controller outputs are used directly for HVAC control. |
| V3 | V3 - GRMS Room Compact Modbus - MC-230-01 | MC-230-01 | Compact room variant with integrated RS485 and direct IEX connection. |
| V3.1 | V3.1 - GRMS Room Compact Wireless - MC-230-01 + EnOcean | MC-230-01 | Compact MC-230-01 room variant with RS485 and SWO-2-1-00 EnOcean wireless opening sensor. |

# Room variant overview

| Variant | Page | Main controller | Short description |
|---|---|---|---|
| V1 | V1 - GRMS Room Base - MC-24-H1 | MC-24-H1 | Base full GRMS room with CR-D1-V2-PX-BK, TGP-4D-01-IQ + TGP-S, ES-W2, FC-1-IQ, lighting, blinds, sensors and energy-saving logic. |
| V1.1 | V1_1_grms_room_base_io_plus_mc24_h1_lc10 | MC-24-H1 | Base room with LC-10-IQ-MK2 module for additional lighting circuits and blinds. |
| V1.2 | V1_2_grms_room_base_modbus_mc24_h1_cad232 | MC-24-H1 | Base room with RS485 / Modbus communication through CAD-232-A3-IQ. |
| V1.3 | V1_3_grms_room_full_option_mc24_h1_lc10_cad232 | MC-24-H1 | Full option MC-24-H1 room with LC-10-IQ-MK2 expansion and RS485 communication through CAD-232-A3-IQ. |
| V2 | V2_grms_room_direct_hvac_mc24_h1 | MC-24-H1 | Simplified MC-24-H1 variant where controller outputs are used directly for HVAC control. |
| V3 | V3_grms_room_compact_modbus_mc230_01 | MC-230-01 | Compact room variant with integrated RS485 and direct IEX connection. |
| V3.1 | V3_1_grms_room_compact_wireless_mc230_01_enocean | MC-230-01 | Compact MC-230-01 room variant with RS485 and SWO-2-1-00 EnOcean wireless opening sensor. |

# Typical connected functions

Standard GRMS room variants can include the following functional groups:

- room access control
- door lock and door status
- in-room touch panel with TGP-S adapter
- ES-W2 room temperature sensor
- HVAC / fan-coil control
- lighting control
- blinds control
- window contact monitoring
- presence detection
- SOS / alarm input
- master off / room exit scene
- floor heating
- ventilation
- managed power supply for energy-saving logic
- Ethernet / Linker connection to S-RMS

# Notes

- These variants represent standard reference configurations.
- Final I/O allocation may be adjusted according to room type and project requirements.
- Electrical schemes and controller programs should be prepared based on the selected variant.
- Additional variants can be added if required by future project configurations.