


PHILIPS

dynalite

DMC-GRMS-UL

General room controller



WARNING
ISOLATE FROM MAINS SUPPLY
BEFORE TERMINATING OR ADJUSTING
ANY TERMINALS. NO SERVICEABLE
PARTS INSIDE. SERVICE BY QUALIFIED
PERSONNEL ONLY.



To reduce the risk of fire or electric shock, do not expose this device to rain or moisture. Installation, programming and maintenance must be carried out by qualified personnel. All local wiring and electrical regulations must be followed when installing device.

Read the Instructions – We recommend that you read this guide prior to commencement of installation.

Note – Installation of the home and building automation and control system shall comply with HD60364-4-41 where applicable. The temperature limits and current carrying capacities of the communication wires specified in HD 384.5.523 shall not be exceeded.

Warning – DyNet voltage should match network voltage. The factory default is 24 V. CH1-4 and CH5-8 must be supplied from the same phase as the supply for the controller.

Power Supply – This device should only be operated from the type of supply specified on the label. The chassis *must* be earthed.

Mounting Location – Install in a dry, well-ventilated indoor location only.

Mounting Orientation – This device can be surface or recess mounted in horizontal (recommended) or vertical orientation.

Factory default – Once powered and terminated correctly this device will operate as per pre-commissioned configuration. The device's network address must be set using the DIP-switches on the Class 2 side of the PCB. Advanced functions are commissioned via the Envision software. If commissioning services are required, contact your local distributor.

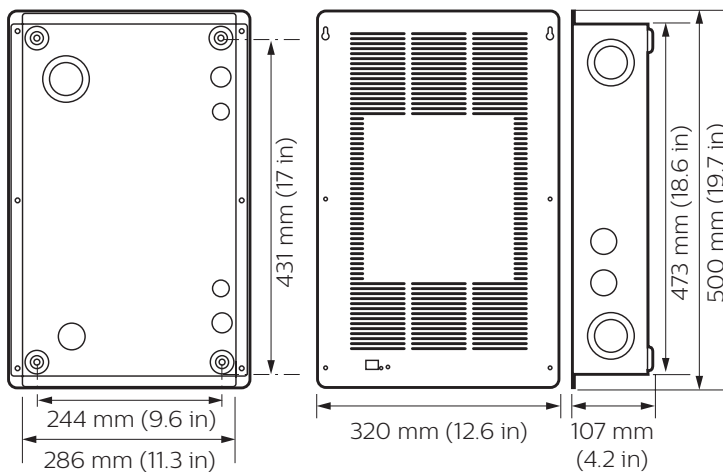
Data Cable – The recommended cable for connections to the serial port is screened, stranded RS485 compatible CAT-5E data cable with four twisted pairs. This cable must be segregated from Class 1 cables as per local electrical code. If anticipated cable runs are over 300m (1000ft) for serial cables, consult your dealer for advice. Do not cut or terminate live data cables. The network topology for installation is daisy chain.

Supply and Load Cables – The supply and load input terminals can accept up to 6mm² (10 AWG) conductors. An Earth bar is located in the Class 1 wiring compartment near the supply terminals labelled L and N.

Allow for Cable Entry – Supply and load cables can enter the enclosure through knockouts at the top, bottom or sides of the enclosure. See wiring requirements overleaf.

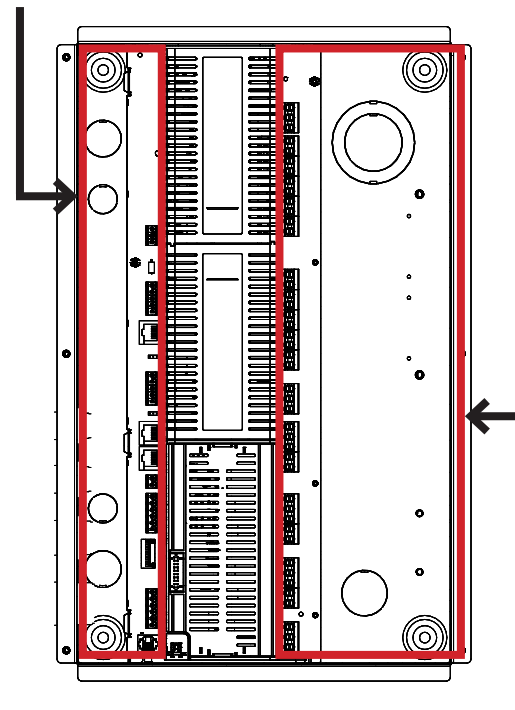
Audible noise – Controllers may emit some audible noise such as humming or relay chatter. Take this into account when deciding the mounting location.

Hardware Dimensions



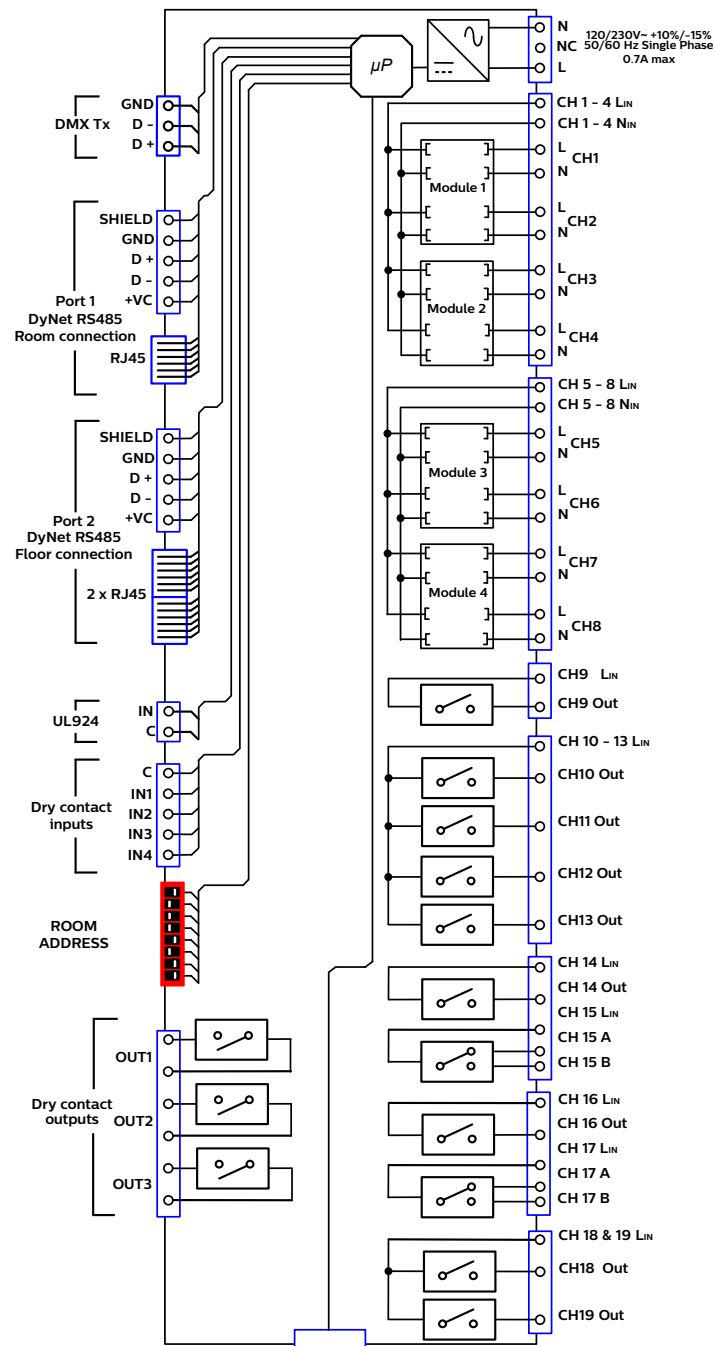
Wiring Requirements

Class 2 (SELV) wiring ONLY in this compartment.



CLASS 1 wiring compartment. If Class 2 or Class 3 wiring is required in this compartment it must be installed within the provided flexible tubing to maintain segregation between circuits

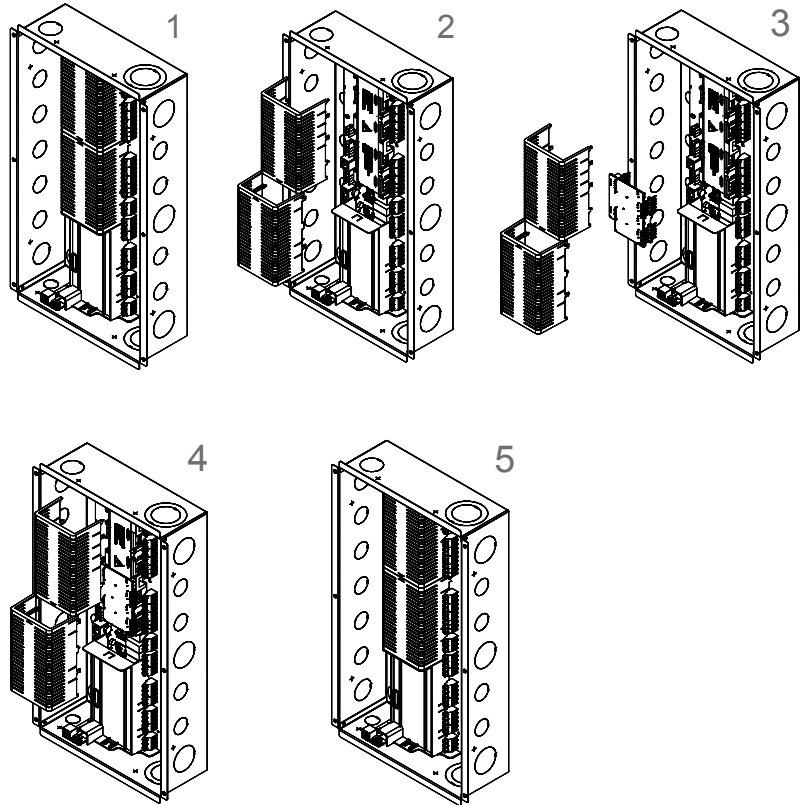
Electrical Diagram



Installation Steps

Before installing, remove the knockouts you intend to run the supply and control cables through

1. Remove the front cover and install in the required location.
2. Remove the module covers.
3. Install the required load control modules.
4. Reattach the module covers.
5. Connect all the required circuits and close the front cover.



Screw Terminal Torque Ratings

Supply/Load Terminals: Conductor size 0.5 mm² (20 AWG) - 6 mm² (10 AWG), 0.62 Nm (5.5 Lb-in) torque

Earth Bar torque:
 #14-10 AWG 2.26 Nm (20 Lb-in)
 #8 AWG 2.82 Nm (25 Lb-in)
 #6-4 AWG 3.95 Nm (35 Lb-in)
 #3-2/0 AWG 5.65 Nm (50 Lb-in)

Dry Contact, UL924, DyNet: Conductor size 0.3 mm² (22 AWG) - 4 mm² (12 AWG), 0.5 Nm (4.4 Lb-in) torque

Compliance: UL/cUL, CE, RCM, FCC, ICES-003, IEC Overvoltage category III, IEC Pollution Degree II

NOTE: For all product specifications, please refer to the DMC-GRMS-UL specification sheet, available from Philips Dynalite.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures: • Reorient or relocate the receiving antenna. • Increase the separation between the equipment and receiver. • Connect the equipment into an outlet on a circuit different from that to which the receiver is connected. • Consult the dealer or an experienced radio/TV technician for help.

CAUTION: Any modifications not approved by the manufacturer of this device could void the user's authority to operate this device

Compliance to Industry Canada ICES-003: CAN ICES-3(B)/NMB-3(B),



DMC-GRMS-UL Installation Instructions Rev 01 Specifications subject to change without notice

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