

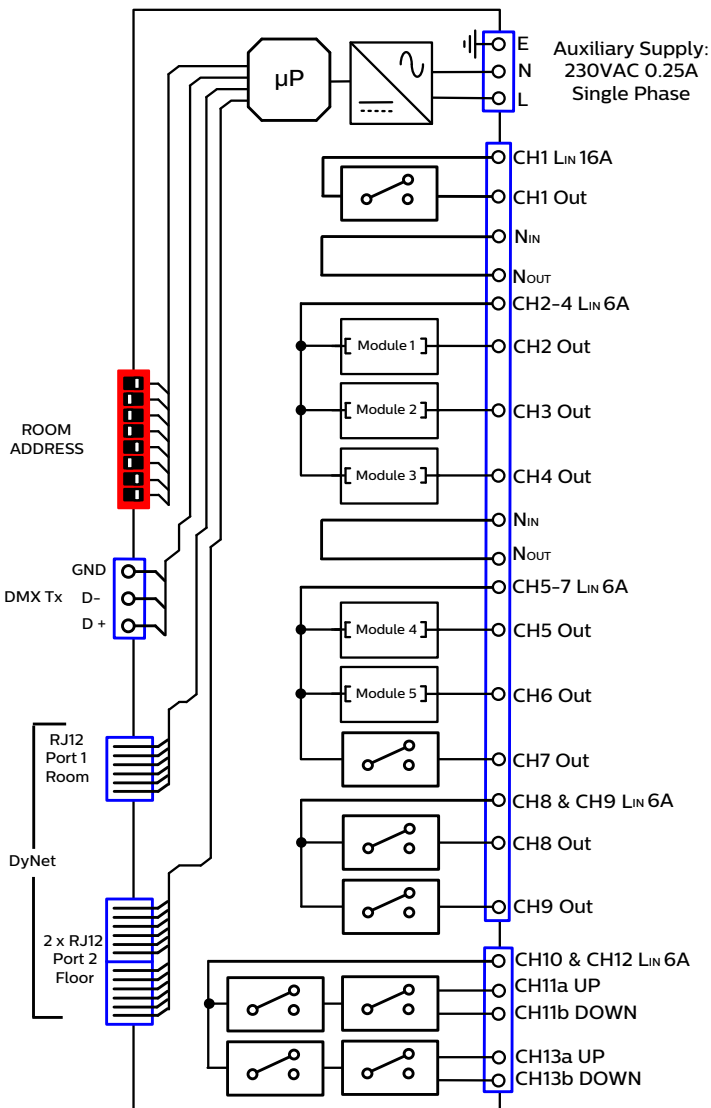
To reduce the risk of fire or electric shock, do not expose this device to rain or moisture. Installation, programming and maintenance must be carried out by qualified personnel. All local wiring and electrical regulations must be followed when installing device.



WARNING

Isolate from mains supply before terminating or adjusting any terminals. Service by qualified personnel only.

Electrical Diagram



Note: The temperature limits and current-carrying capacities of the communication wires specified in HD 384.5.523 shall not be exceeded. Installation of home and building automation control shall comply with HD 60364-4-41.

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

Warning – Do not cut, short or terminate live wires. Check all wiring terminations prior to energizing the device. Do not connect DyNet bus or dry contact inputs to mains or load wiring. DyNet bus and dry contacts are SELV and must be isolated and segregated from mains and other wiring as per local wiring rules.

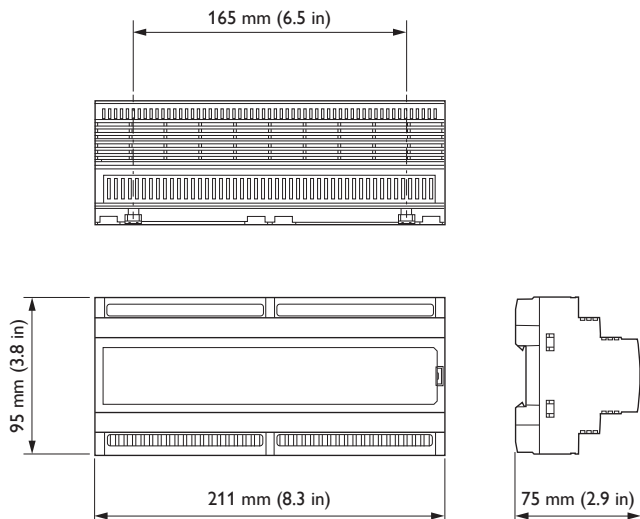
Special Programming – Once powered and terminated correctly this device will only operate in a default configuration. Advanced functions are commissioned via the Envision software. If commissioning services are required, contact your local distributor.

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

Mounting Location – Install in a dry, well-ventilated indoor location only. Controllers may emit some mechanical noise, take this into account when determining location.

Data Cable – Use Dynalite DYNET-STP-CABLE or equivalent screened, stranded RS485 data cable with four twisted pairs. Segregate from mains cables by at least 300mm. A data cable that is connected to an energized device is live. Do not cut or terminate live data cables. Network Topology for installation is Daisy Chain.

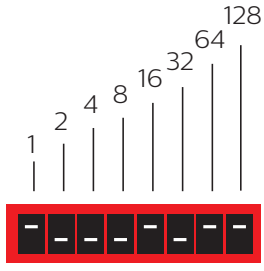
Hardware Dimensions



DIP switch addressing

The room address is determined by the total value of all ON switches.

This example shows the DIP switch setting for 209 (1 + 16 + 64 + 128)

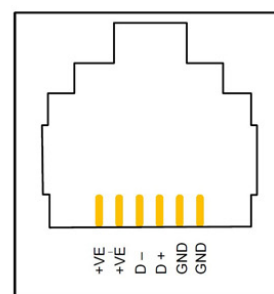
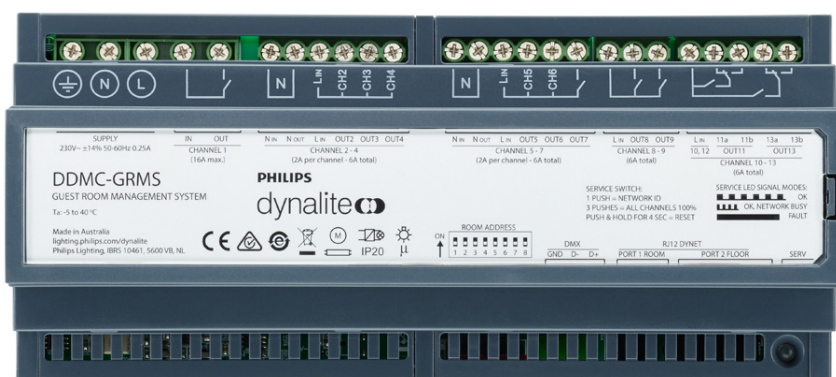


ON

1 2 3 4 5 6 7 8

Installation Steps

1. Isolate Mains supply prior to wiring
2. Mount the device on a DIN rail inside an approved enclosure, in compliance with local electrical codes.
3. Connect the mains supply to the Auxiliary Supply and feed terminals. The Auxiliary Supply must be on the same phase as feeds CH2-CH7. Different phases can be used for supply of the CH1, CH8-CH9 and CH10-CH13 feeds. CH1 and CH7-CH9 are relay switching only, CH2-CH6 are for control modules, and CH10-CH13 are for directional AC motor control.
4. Calculate loads to ensure that no channels are overloaded, then connect loads to the output channels. Each common supply feed must be protected by an MCB/fuse rated lower than the individual channel rating on the common feed (i.e. < 16 A for CH1 and < 6 A for other feeds). All Neutral terminals must be looped together. Max 20 A is allowed per single Neutral terminal loop. **The maximum box loading is 40A.**
5. Use the DDMC-GRMS as the start of the DyNet network within the room, connecting DyNet Port 1 to all user interfaces and load controllers in the room in a daisy chain configuration. There is no need for a return network loop from the last device in the chain.
6. If multiple rooms are daisy-chained on the same network, use the two Port 2 sockets to connect each DDMC-GRMS to the next in a daisy chain, and set the room number for each DDMC-GRMS on the floor using the binary DIP switches as shown on the previous page. Connect the gateway for the floor to Port 2 on the first DDMC-GRMS in the chain.
7. Recheck all termination points, then energize the device and check functional response from all user interfaces in the room.

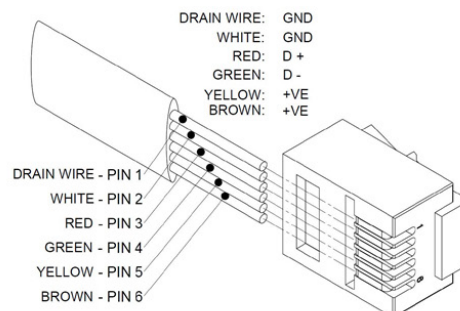


Port 1 - Room



DyNet devices in room

Port 2 - Floor



← From previous room

→ To next room

Product Specifications

Device Supply:	230 VAC ±14%, 50/60 Hz, Single Phase, or 230 / 400 VAC ±14%, 50/60 Hz, 3-phase star with Neutral Overvoltage Category III (max 4kV surge)	
Auxiliary Supply:	230 V +/- 14% 50/60 Hz Single Phase at 0.25 A (must be on the same phase as feeds for CH2-CH7)	
Channel ratings:	CH1:	Switched 240 VAC 16 A resistive, Feed-through from any phase Inrush current max 165 A @ 20 ms / 800 A @ 200 µs.
	CH2-CH4:	Common feed 240 VAC 6 A
	CH5-CH7:	Common feed 240 VAC 6 A
	CH7:	Switched 240 VAC 4 A. Inrush current max 118 A
	CH8-CH9:	Common feed 240 VAC 6 A, Inrush current max 118 A
	CH10-CH13:	Common feed 240 VAC 6 A, Dual blind control outputs, 4 A / 240 VAC each Any phase or ELV supply, Inrush current max 10 A
Max. Conductor Size:	DMX terminals:	1 x 2.5mm ² or 2 x 1.5mm ²
	All other terminals:	1 x 4mm ² or 2 x 2.5mm ²
Operating Conditions:	Temperature: -5° C to 40° C ambient Humidity: < 95% non-condensing IEC Pollution Degree II	
Compliance:	CE, RCM, RoHS	

DDMC-GRMS Installation Instructions Rev 03 Specifications subject to change without notice

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