

# DDNG485 network gateway

The Dynalite DDNG485 is a flexible network communications gateway designed for DyNet RS485 networks. The two opto-isolated RS485 ports enable the DDNG485 to implement a trunk and spur topology on large project sites, with the device providing a high-speed backbone opto-coupled to many lower speed spurs. It also provides isolation of electrical faults to individual spurs.

The device is also designed to enable a cost effective serial port integration between the Dynalite control system and third party systems such as Audio Visual, lighting desks, HVAC, BMS & security. The interface incorporates a Programmable Logic Controller that can process comprehensive conditional and sequential logic and arithmetic functions. A library of data formats is available for the systems intergrator to choose from or, alternatively, a format can be created using the on-board conditional logic engine to assemble, transmit and receive using user-defined data strings. Macro functions are available to simplify the control of multiple devices.



## technical data

### Supply

12V DC 40mA from the DyNet Network, fed via Port 1

### Control Ports

2 x RS485 DyNet/DyNet II serial ports

### Serial Port Isolation

3.75KV RMS optical isolation between ports

### User Controls

Service switch  
Diagnostic LED

### Internal Controls

Programmable Logic Controller - 64 Tasks

### Serial Port Terminals

Port 1:  
SHIELD, GND, D+, D-, +15V  
1 x 2.5mm<sup>2</sup> max conductor size

Port 2:  
SHIELD, GND, D+, D-, +15V  
1 x 2.5mm<sup>2</sup> max conductor size  
1 x RJ12 socket for plug in connection

### Diagnostic Functions\*

Device Online/Offline status  
\* DLight, DTK600 Touch Screen or BAS interface is required for displaying and analysing diagnostic data.

### Compliance

CE, C-Tick

### Operating Environment

0° to 50°C ambient temperature  
0% to 95% RH non condensing

### Construction

ABS DIN Rail case (6 units wide)

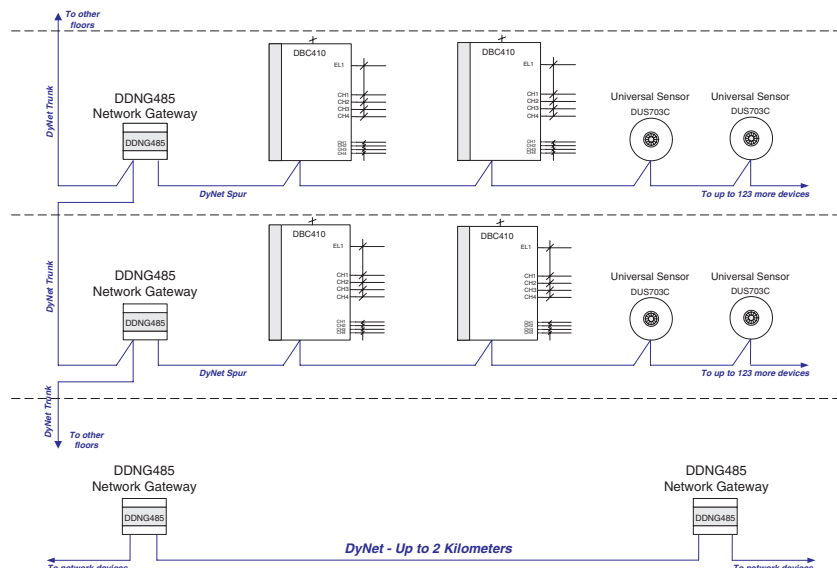
### Dimensions

H 86mm x W 105mm x D 58mm

### Weight

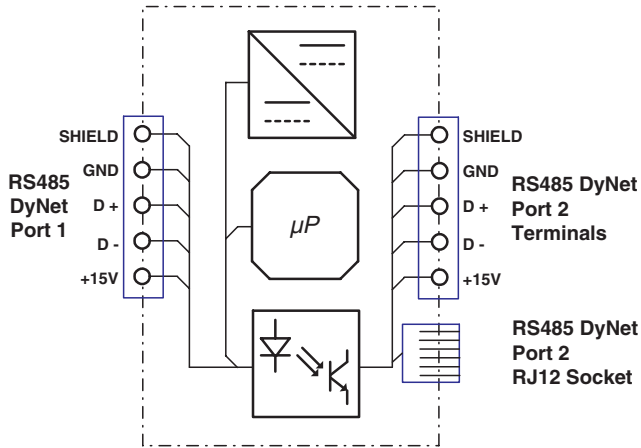
Packed weight 0.25kg

## example of trunk/spur topology



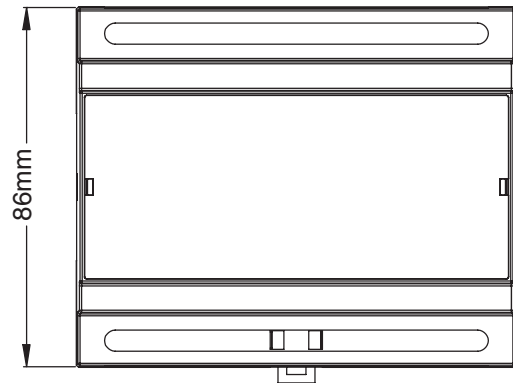
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## electrical diagram

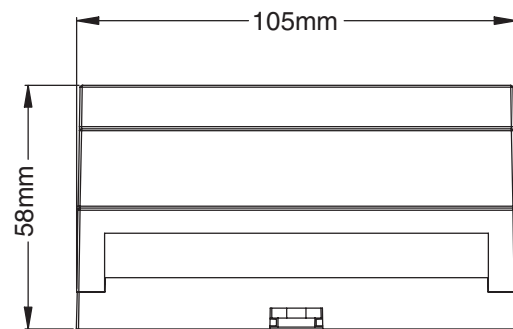


## mounting diagram

top view



side view



end view

