

DDNG-KNX

Network Gateway
Installation Manual



features

- Powered From The DyNet Network Mains supply not required
- Optically Isolated between the two communication Ports 2.5KV surge isolation.
- Allows KNX integration to Philips Dynalite lighting control system
- Powerful Internal PLC Custom scripts can be written to provide process control based on conditional logic.

Warning – This is a class A product. In a domestic environment this product may cause radio interference in which case the user may be required to take adequate measures.

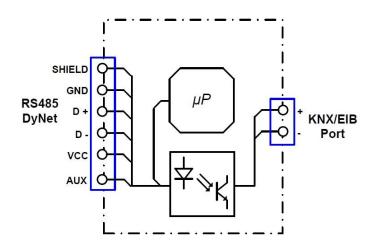
Read Instructions – We recommend that you read this Instruction Manual prior to commencement of installation.

Special Programming – This device will only operate in basic modes unless programmed via a computer. If programming is required, contact your local agent for details. Once the data cable is connected to the devices, the factory default settings will allow any control panel to operate all channels in all controllers.

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

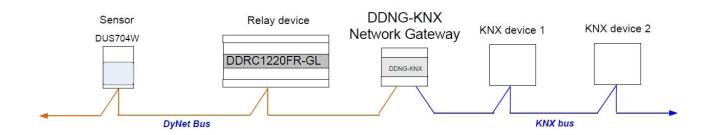
Data Cable – Use screened, stranded RS485 data cable with three twisted pairs. Segregate from mains cables by 300mm. Connect devices in a 'daisy chain'. Do not cut or terminate live data cables.

electrical diagram



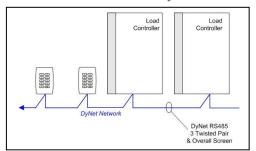
installation steps

- 1. Mount the device on a DIN rail inside an appropriate enclosure.
- 2. Ensure the both Dynet and KNX networks are powered down before beginning termination
- 3. Connect data cables to the device as per diagrams. Note that the device is powered from the DyNet network segment that is connected to Port 1.
- 4. Connect KNX network to second port of gateway.
- 5. Power up both Dynet and KNX networks.
- 6. The gateway is now ready to be commissioned.

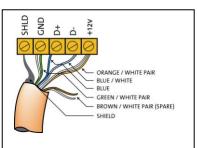


connecting data cable for Dynet

Connect Data Cable in a 'Daisy Chain'



Serial Cable Permanent Connections



recommended cable colour coding

Green/White Pair Orange/White Pair Blue/White Pair

paralleled for GND paralleled for +12V Blue for DATA+ White for DATA-

recommended cable types

Belden: DYNET-STP-CABLE Dvnalite MCP3S

Garland: Hartland: HCK603 M&M Cable: B2003CS M&M cable: B9503CS

AWME120236209220 Multicables:

RS Components: 368-687

product specifications

RS485 Serial Port 1: 1 x RS485 consisting of 1 x 6 way terminal block 1 x KNX consisting of 1 x 2 way terminal block **KNX Serial Port 2:**

Serial Port Isolation: Opto Isolated to 2.5KV Surge

User Controls: Service Switch, Diagnostic LED for Dynet and KNX network

Internal Controls: Programmable Logic Controller, 64 Tasks

0° to 40°C ambient temperature, 0% to 90% RH non condensing **Operating Environment:**

Power Consumption: 50mA from the DyNet network at 12VDC Compliance:

Construction: Polycarbonate DIN Rail enclosure (6 unit)

Dimensions: H 86mm x W 105mm x D 66mm

0.25kg Weight:

^{*} If using unshielded cable, parallel the brown pair for Shield