

# DDNI-LON

## DyNet to LON Interface Instruction Manual



### features

- Supports 30 Areas, 100 Presets per Area
- Configured with LonMaker
- Power Supplied from Network - No mains connection
- Simple Installation - DIN Rail mount facilitates installation. Fixing points are provided for installation without the use of DIN rail
- Multiple units can be Cascaded, for larger systems



To reduce the risk of fire or electric shock, do not expose this device to rain or moisture. Do not energise unless the front cover is in place. This device must be earthed. Installation, programming and maintenance must be carried out by qualified personnel.

**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.

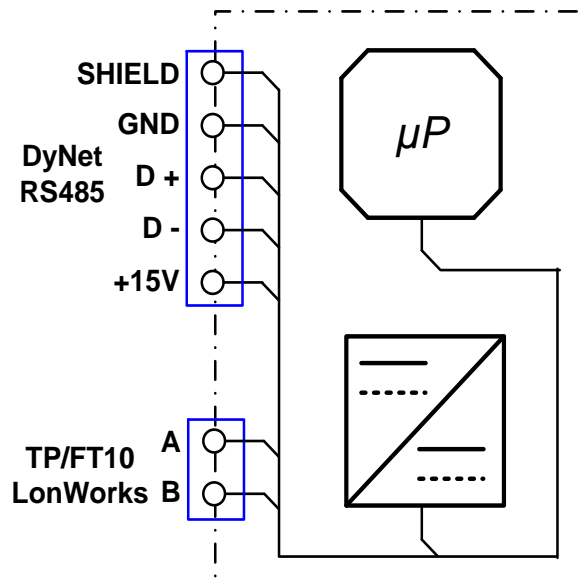
**Read Instructions** – We recommend that you read this Instruction Manual prior to commencement of installation.

**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 or input to operate all channels in all controllers.

**Mounting Location** – Install in a dry, well-ventilated location. Controllers may emit some mechanical noise. Take this into account when deciding the mounting location.

**RS485 Data Cable** – Use screened, stranded RS485 data cable with three twisted pairs. Segregate from mains cables by 300mm minimum. Connect devices in a 'daisy chain'. A data cable that is connected to an energised device is live. Do not cut or terminate live data cables.

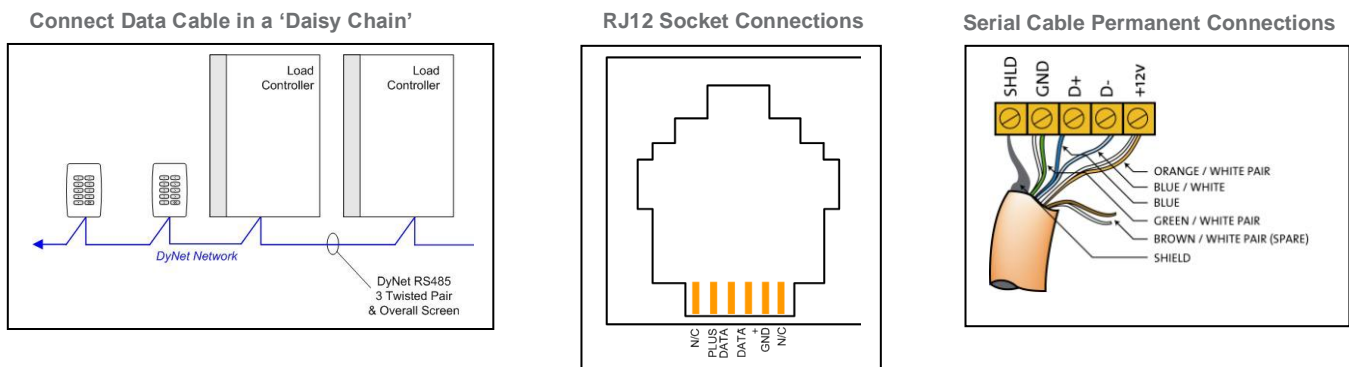
### electrical diagram



# installation steps

1. Mount the device on a DIN rail inside an approved enclosure. The device can also be installed without the use of DIN rail by removing the cover to access two mounting screw holes.
2. Connect RS485 data cable to the serial port as per the connection diagram overleaf.
3. Connect the 2 core LON data cable to the LON port. This connection is not polarity conscious.

## connecting data cable



## recommended cable colour coding

<b>Green/White Pair</b>	paralleled for GND
<b>Orange/White Pair</b>	paralleled for +12V
<b>Blue/White Pair</b>	Blue for DATA+
	White for DATA-

## recommended cable types

Belden:	9503	Dynalite:	DYNET-STP-CABLE
Garland:	MCP3S	M&M cable:	B9503CS
Hartland:	HCK603	Multicables:	AW ME120236209220
M&M Cable:	B2003CS	RS Components:	368-687

## product specifications

<b>Supply:</b>	9-16V DC @ 50mA from the DyNet network
<b>Control Ports:</b>	1 x RS485 DyNet serial port, 1 x TP/FTT10A twisted pair LonWorks port
<b>User Controls</b>	DyNet Service Switch, DyNet Diagnostic LED, LON Service Switch, LON Diagnostic LED
<b>Operating Environment:</b>	0° to 50°C ambient temperature, 0% to 95% RH non condensing
<b>Compliance:</b>	CE, C-Tick
<b>Enclosure:</b>	Polycarbonate plastic DIN rail mount
<b>Dimensions:</b>	H 94mm x W 105mm x D 75mm
<b>Weight:</b>	Packed weight 0.6Kg