

# DIR-TX8

## Infra Red Transmitter Learner Installation Manual



### features

- **8 x independently controllable InfraRed Outputs** - IR outputs are accessible via 3.5mm Stereo jacks
- **Integral Learner for capturing unknown IR codes** - Learned codes are saved to the DIR-TX8 and may also be saved to hard disk for later use
- **1 x RS485 DyNet Port** - Available on a 5 way terminal strip and a RJ12 socket
- **Powerful Programmable Logic Controller** - Custom scripts can be written to provide Macros and process control based on conditional logic
- **Powered from the DyNet Network** - No need for an external power supply
- **Simple Installation** - Compact enclosure allows the device to be conveniently placed near the device to be controlled. All connections are accessible without disassembly

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

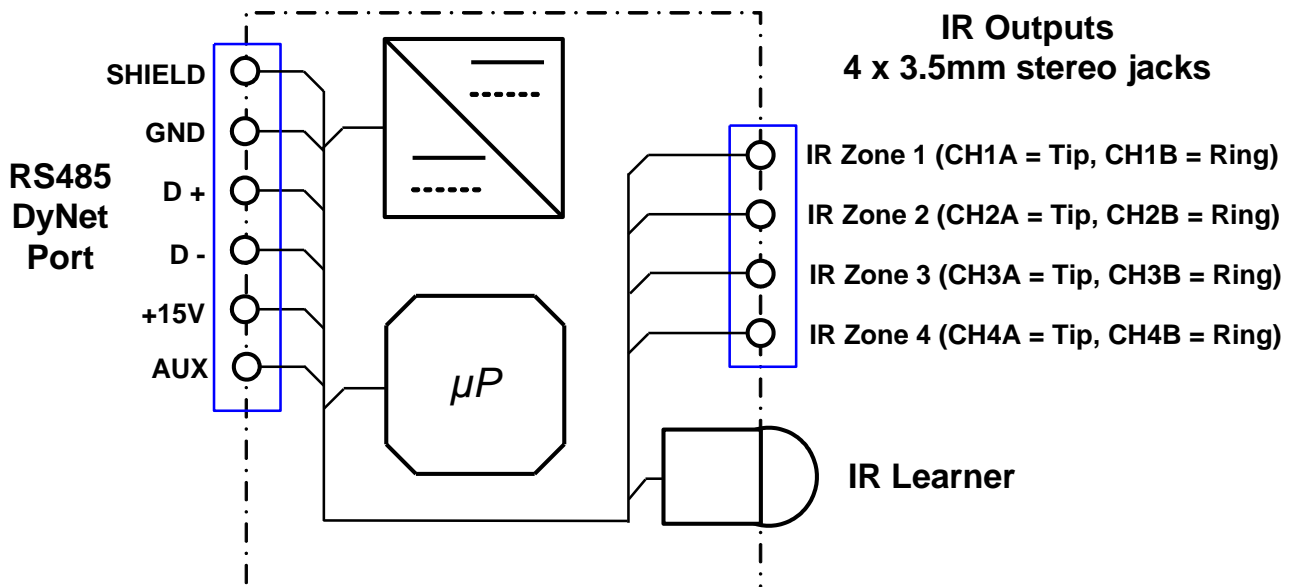
**Special Programming** - This device requires programming via a computer, contact your local agent for details. Consult the DIR-TX8 Programming Manual for information on programming this device.

**Installation Location** - Install in a dry location, close to the equipment to be interfaced with.

**Infrared Emitters (supplied separately) are required for use with this device** - Dynalite offer the DIR-EM2 dual head emitter, which provides independent control of two components. Most third party emitters with 3.5mm plugs, both Stereo and Mono, are suitable for use with the DIR-TX8.

**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.

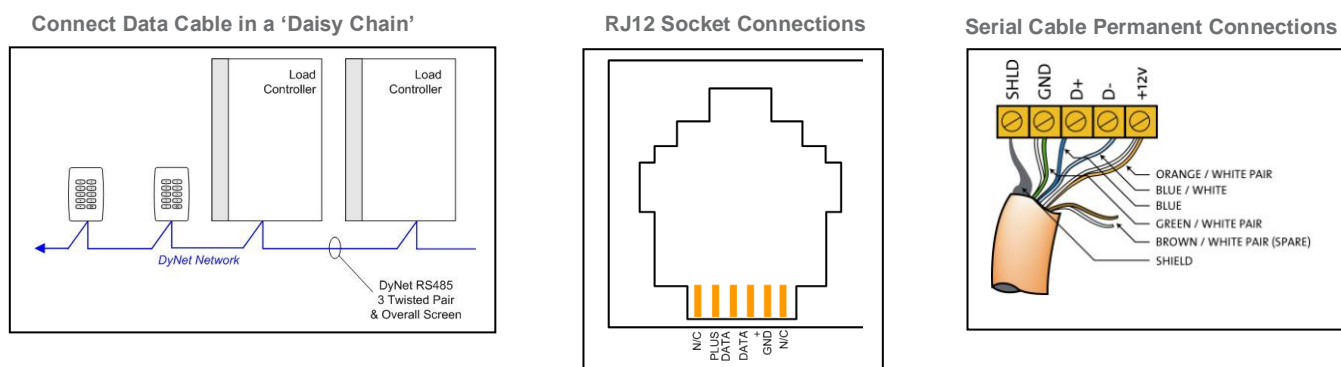
### block diagram



## installation steps

1. Place the DIR-TX8 In a clean, dry location, close to the equipment to be interfaced with.
2. Connect the RS485 cable to the DyNet 5 way terminal strip as per the “Connecting RS485 Data Cable” diagrams. Note that this device consumes 40mA of power from the DyNet network.
3. Fix DIR-EM1 emitter heads to the IR windows of equipment to be controlled using the adhesive pads supplied. Note that hand held IR remote controls will still work as the DIR-EM1 emitter heads will pass IR to the IR window of the equipment. Plug the other ends of the DIR-EM1(s) into the IR jacks on the front panel of the DIR-TX8.
4. This device must be programmed before it will operate. Detailed programming information is available in the document: DIR-TX8 Programming Manual.
5. If the Auxiliary input is to be used, connect a dry contact device in between the AUX and GND terminals. Keep cable runs between the DDBC1200 and the dry contacts under two metres. The function of the Auxiliary input will need to be programmed at the time of commissioning.

## 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:	AWME120236209220
M&M Cable:	B2003CS	RS Components:	368-687

## product specifications - DIR-TX8

<b>RS485 Serial Port:</b>	1 x RS485 DyNet, via 1 x RJ12 socket & 1 x 5 way terminal strip
<b>InfraRed TX Ports:</b>	8 x IR outputs via 4 x 3.5mm Stereo Jacks
<b>InfraRed RX Ports:</b>	1 x IR receive port for learning IR codes
<b>AUX Input:</b>	1 x programmable dry contact AUX input
<b>User Controls:</b>	Service Switch, Diagnostic LED, Learn/IR TX LED
<b>Internal Controls:</b>	Programmable Logic Controller
<b>Operating Environment:</b>	0° to 50°C ambient temperature, 0% to 95% RH non condensing
<b>Power Consumption:</b>	40mA from the DyNet network
<b>Compliance:</b>	CE, C-Tick
<b>Construction:</b>	ABS plastic stand alone enclosure
<b>Dimensions:</b>	H 30mm x W 80mm x D 150mm
<b>Weight:</b>	0.15Kg

## product specifications - DIR-EM2

<b>Emitter heads:</b>	2 independent emitters
<b>Termination:</b>	3.5mm Stereo plug
<b>Lead Length:</b>	2 meters