

PHILIPS

dynalite 

DTP100

Revolution Colour Touchscreen Panel Installation Manual



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features

- Sophisticated feature-rich LCD Colour Touchscreen panel.
- DTP100 fascia accommodates practically any flat architectural surface medium.
- Controls 255 areas, 255 channels per area, 96 scenes per area, 250 events, 8 tasks.
- Full access to Microsoft Windows CE operating system and components, in addition to Dynalite Touchscreen Panel software.
- Integrated control of lighting, AV, security, HVAC etc.
- Objects (logos, buttons, faders, floor plans, diagnostic icons etc) can be placed on pages and used to perform simple and complex conditional logic macros. Pages are created using Dynalite's touchscreen editor.



Warning

- 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.
- INSTALLATION, PROGRAMMING AND MAINTENANCE MUST BE CARRIED OUT BY QUALIFIED PERSONNEL

important safeguards

Please read these instructions

Special programming – This device will only operate in basic modes until programmed. If programming is required, contact your local agent for details. Once the data cable is connected to the device, the factory default settings will allow the panel to control all channels in all dimmers.

Mounting location – This device must be mounted indoors away from direct sunlight. The optimum viewing angle is 75°. Ensure that the LCD display will be at or slightly below eye level for all users. Take this into account when deciding the mounting location.

Data cable – The recommended cable for connections to the serial port is screened, stranded RS485 data cable with three twisted pairs. Part numbers for various manufacturers are listed on page 5. This cable should be segregated from mains cables by a minimum distance of 300mm. If anticipated cable runs are over 600 metres for serial cables or 12 metres for analogue cables, consult your Dynalite dealer for advice. Do not cut or terminate live data cables.

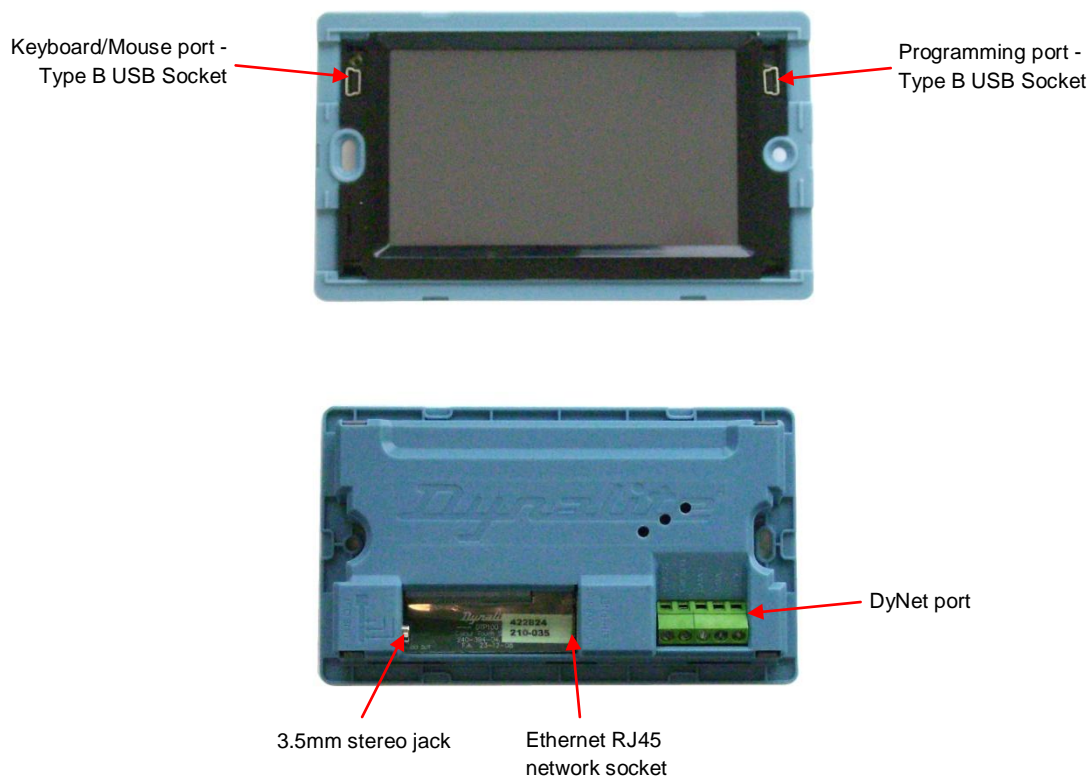
The display – The DTP100 LCD display and touch membrane are very sensitive to damage from sharp or hard objects. Never operate the panel using anything other than your fingertip. The miniature fluorescent tube backlight is very fragile and runs at a high voltage. Ensure there are no protrusions when fitting the panel to the wall. If cleaning is required, use a dry cloth or soft cloth with alcohol, neutral detergent or ethanol for clearing of dirt and smudging.

Power supply – The DTP100 Touchscreen Panel is powered from the DyNet network and does not require mains voltage supply.

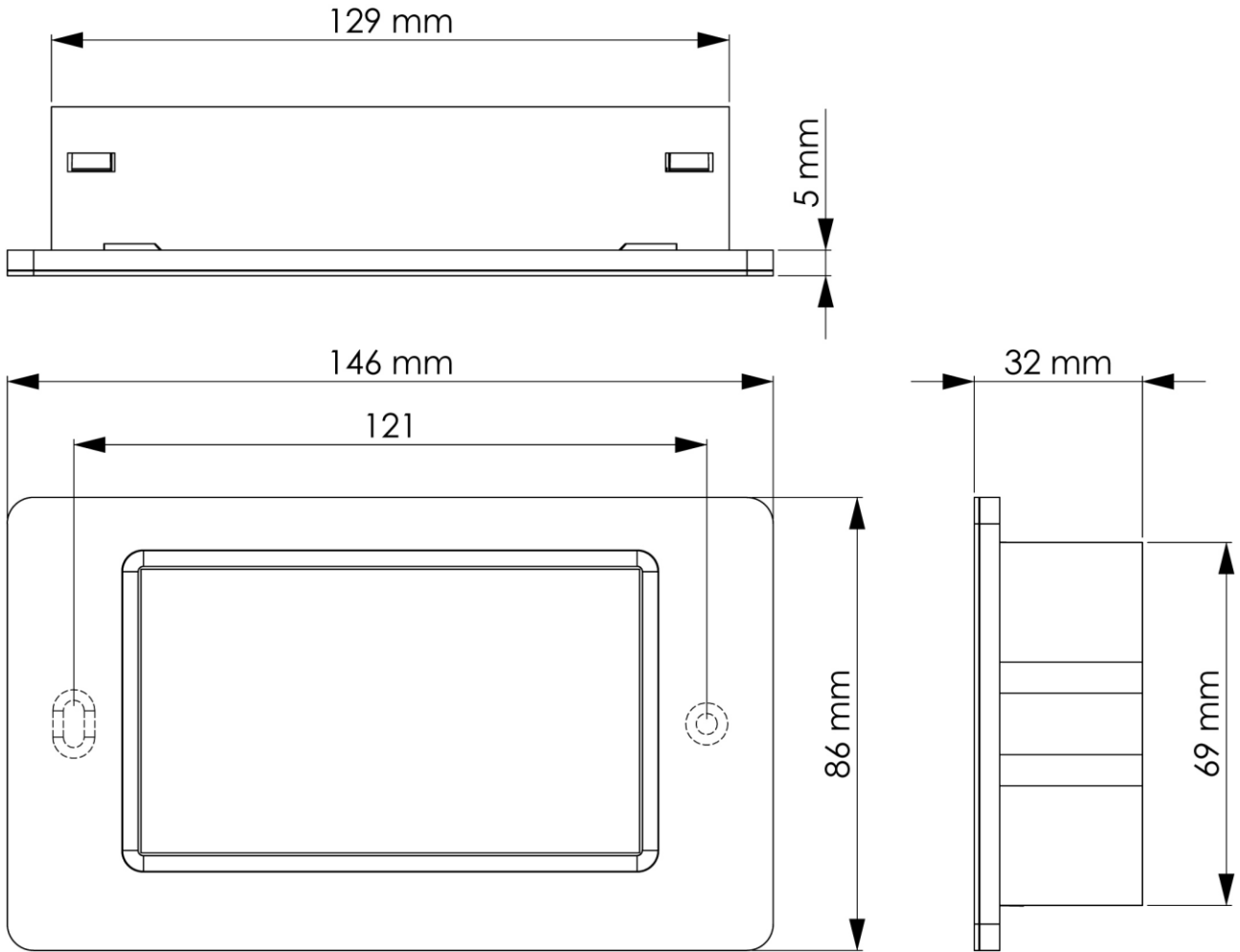
specifications

Supply +VE:	12V DC @ 400mA from the DyNet Network
IO ps:	1 x RS485 DyNet serial port, 1 x RJ45 10/100BaseT Ethernet port, 1 x InfraRed Remote receiver, 1 x Mini USB Type B service socket (programming port), 1 x Mini USB Type B service socket (keyboard/mouse)
Screen:	Viewable Area: 10.8cm (4.3") diagonal, (H 5.68cm x W 9.5cm) Resolution: 480x272 (16:0 screen ration) Colour Depth: 16bit (65535) Contrast: 400:1 Luminance: 350 cd/m ² Screen Type: TFT LCD Viewing Angle: H 75° Vtop 75° Vbottom 45° Backlight: Dimmable CCFL 40,000 hr rated Touch Overlay: 4 wire resistive
Operating System & Software:	Windows CE 5.0, Internet Explorer 6, Windows Media Player 9 with MP3 support
Compliance:	CE, C-Tick
Ambient Temperature:	0° to 45°C ambient temperature 10% to 90% RH non-condensing
Audio:	On board speaker Line out via 3.5mm stereo jack Microphone
Construction:	Concealed fixings fascia
Hardware:	CPU: Intel XScale PXA270 520MHz Non Volatile Memory: FLASH, 128Mb Volatile Memory: SDRAM, 64Mb
Dimensions:	Exposed: H 86mm x W 146mm x D 5mm
Packed weight:	0.9 kg

internal view



mounting



Selecting a Location

Remember the display height should be equal to, or slightly below, the eye level of all users. Avoid a location in which bright light is present, either directly in front of, or behind, users.

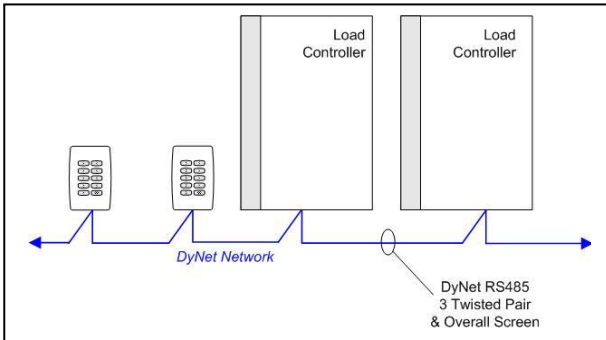
Fixing the Device

Recommended back box for dry lining / plasterboard applications, use the following part numbers.

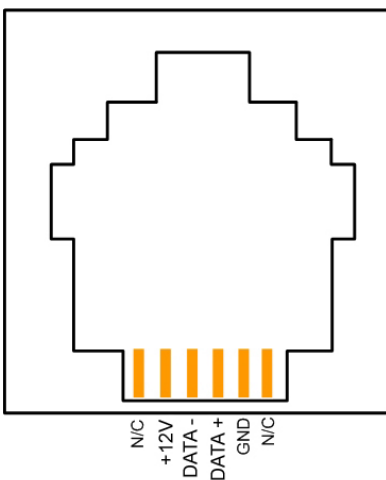
- 700-279 Wallbox recess metal
- 700-389 Wallbox recess drywall
- 700-280 Wallbox surface mount

connecting serial cables

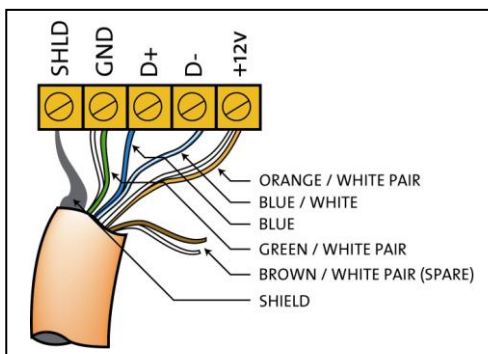
Connect Data Cable in a 'Daisy Chain'



RJ12 Socket Connections



Serial Cable Permanent Connections



Determine Your Requirements

Serial Ports are used to interconnect dimmers, other control panels, sensors and AV controllers. Serial port devices can be identified by 4 terminals labelled: GND, DATA DATA-, +VE. On the DTP100 connect to Port 1 closest to the RJ12 Connector.

Serial Cable Connections

There is one RS485 port for DyNet signals, in the form of a RJ12 socket, on the rear, which is used for the temporary connection of a PC or a Portable Programmer (DPP601). There are data terminals on the main PCB, for permanent connections. The recommended cable for connections to the serial port is screened, stranded RS485 data cable with three twisted pairs. Recommended cable types include:

Belden:	9503
Dynalite:	DYNET-STP-CABLE
Garland:	MCP3S
Hartland:	HCK603
M&M Cable:	B2003CS
M&M cable:	B9503CS
Multicables:	AWM E120236 2092 20
RS Components:	368-687

One pair is paralleled for GND, one pair paralleled for +VE, and one pair used for DATA and DATA-.

Recommended Cable Colour Coding

Green/White pair:	paralleled for GND
Orange/White pair:	paralleled for +VE
Blue/White pair:	Blue for DATA +
	White for DATA -

The colour-coding scheme used is not critical, as long as the same scheme is used throughout the installation. The shield should be terminated in the "SHIELD" terminal if present, otherwise it should be terminated to the metal chassis of electrically earthed devices, and looped through on devices that are not electrically earthed.

Serial Cable Connecting Method

The recommended connecting method is to 'daisy chain' devices (starting at the first device, then looping in then out of devices, with a single cable terminating at the last device. There should not be any spurs or stubs, and only the first and last device should terminate one cable. All other devices should terminate two cables). Devices may be wired in any order. The data cable should be segregated.

useful DyNet op codes

DTP100 Installation Manual Rev I.doc Specifications and design subject to change without notice.
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