

# DTP170

## Colour Touch Screen Installation Manual



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### 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

## features

- Fully configurable control panel
- DTP170 fascia accommodates practically any flat architectural surface medium.
- Sophisticated feature rich LCD Colour Touchscreen panel.
- Controls 255 areas, 255 channels per area, 96 scenes per area, 250 events, 8 tasks.

## important safeguards

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

**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 90°. 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 DTP170's 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. 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 DTP170 Touch Screen requires a DC supply. Due to the extra load of the backlighting, supply from the DyNet network may not be of an adequate capacity. We recommend the installation of an additional 12V - 15V DC power supply rated at 1A minimum, connected directly to the +12V and GND terminals on the panel (in parallel to the network +12V and GND cables). This may require additional wiring. When selecting the power supply location, keep in mind that a power supply hidden locally in the wall or ceiling is difficult to service.

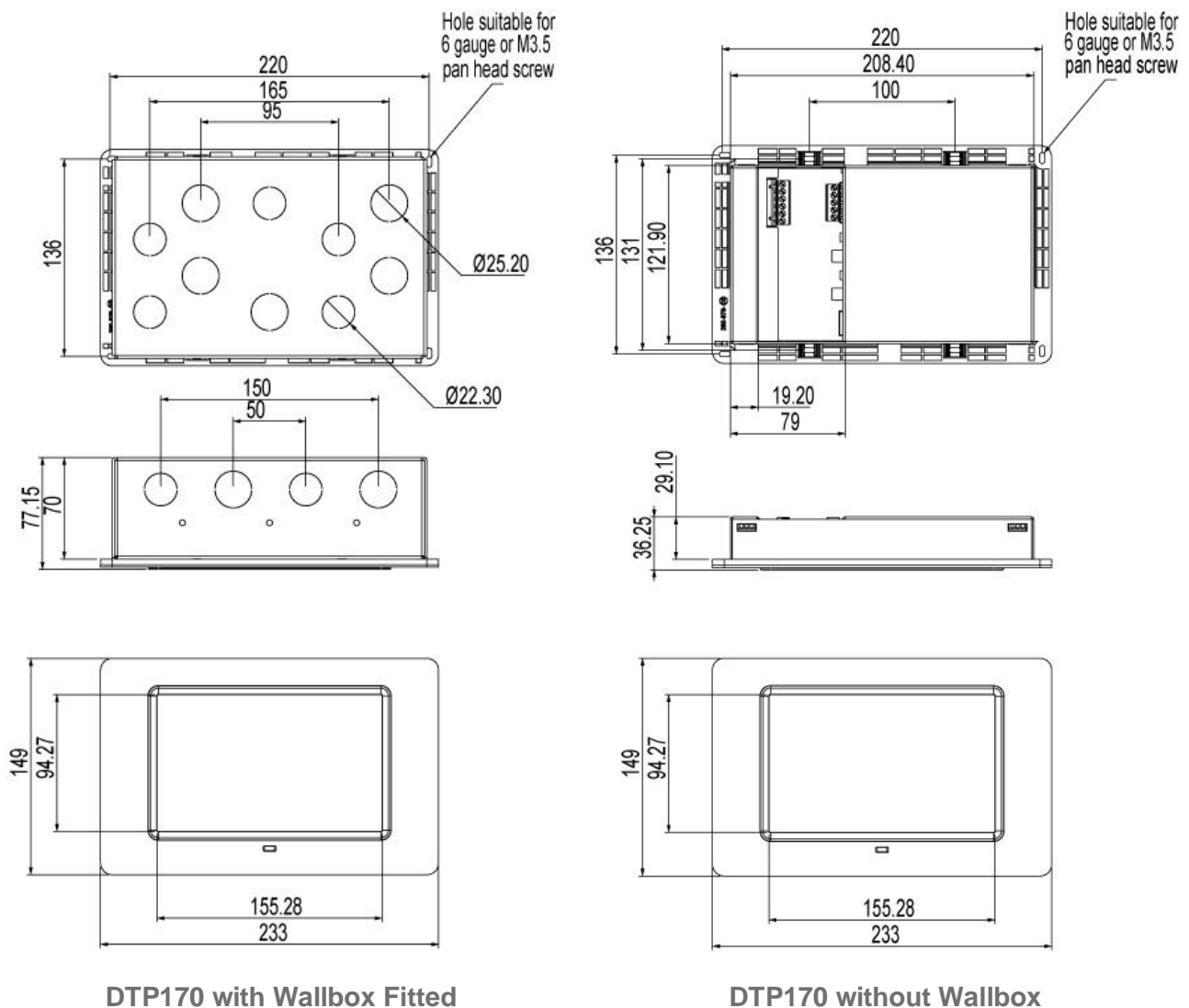
# Specification

<b>Supply +VE:</b>	12V DC @ 0.6A from the DyNet Network
<b>IO ports:</b>	1 x RS485 DyNet serial port, 1 x RJ45 10/100BaseT Ethernet port, 1 x USB Type Mini-B socket, 1 x USB Type A socket
<b>Screen:</b>	Viewable Area: 178mm (7") diagonal, (H 9.79cm x W 13.05cm) Resolution: 800x480 (WVGA / 16:9 ratio) Colour Depth: 65,536 (16bit) Contrast: 300:1 Luminance: 280 cd/m2 Screen Type: TFT LCD Viewing Angle: H 65° Vtop 50° Vbottom 60° Backlight: Dimmable LED 40000 hr rated Touch Overlay: 4 Wire Resistive
<b>Operating System and Software:</b>	Windows CE 6.0, Internet Explorer 6, Windows Media Player 9 / MP3 support
<b>CPU:</b>	Intel XScale PXA310 624MHz, 128MB SDRAM, 512MB FLASH
<b>Compliance:</b>	CE, C-Tick
<b>Ambient Temperature:</b>	0° to 40°C ambient temperature. 10% to 90% RH non condensing
<b>Audio:</b>	Power Output: 0.5W RMS x 2 Speakers: 2 with 25mm diameter cones Line Out via 3.5mm stereo jack
<b>Construction:</b>	Concealed fixings facia, metal body & wallbox
<b>Dimensions:</b>	
Exposed Face:	H 149mm x W 233mm x D 7mm
Hidden Wallbox:	H 136mm x W 220mm x D 70mm
<b>Packed Weight:</b>	1.9kg

## internal view



# dimensions



## installation

### Selecting an Installation 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.

### Installing the Product

The DTP170 Touch Screen is designed to be flush-mounted, with or without a wallbox. If using a wallbox, separate the wallbox from the Touch Screen and make sure no dust or debris enters the Touch Screen during installation. Knock out a cable entry point on the wallbox, then prepare a hole:

**140mm high x 218mm wide x 71mm deep.**

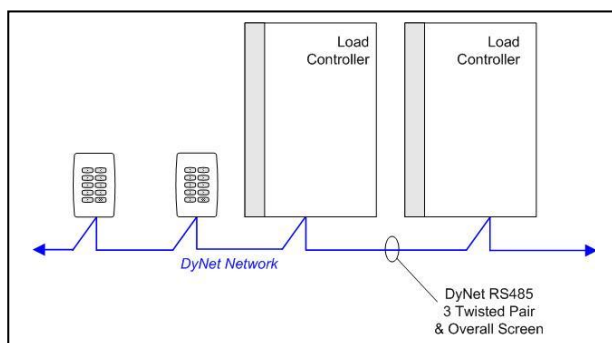
The wallbox can then be fixed in place using an appropriate method.

### Power Supply

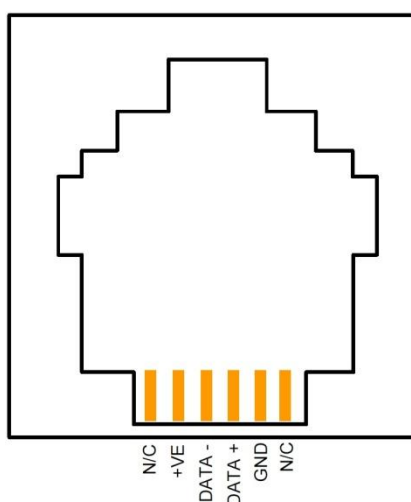
This product consumes up to 600mA from the DyNet network. Ensure that appropriate DyNet DC supply is available to operate this product and any other DC supply consuming peripherals that may be present on the bus.

# connecting serial cables

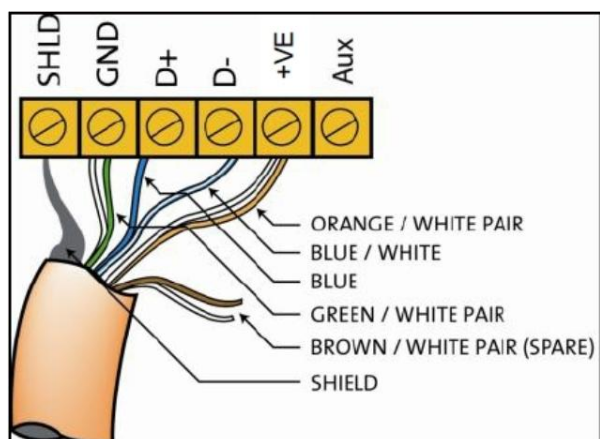
## Connect Data Cable in a 'Daisy Chain'



## RJ12 Socket Connections



## Serial Cable Permanent Connections



## Serial Cable Connections

There is one RS485 port for DyNet® signals, in the form of a RJ12 socket, on the front, which is used for the temporary connection of a PC or a Portable Programmer (DPP601). There are data terminals on the rear, 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 +12V, 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. *A data cable that is*

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DTP170 Installation Manual Rev I.doc Specifications and design subject to change without notice.  
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