



DTP100



DTP170

# DTP100/170

## Touchscreen User Interface

### Features

- **HTML-based graphical interface**
  - Interactive web pages control multiple systems including lighting, AV, security and HVAC.
- **Integrated Timeclock**
  - Enables powerful automated functionality and time-based conditional logic operations.
- **Ethernet and DyNet connectivity**
  - Supports simultaneous DyNet communication and live video streaming over Ethernet, as well as full internet connectivity.



### Warning

Do not connect DyNet to mains.

DyNet networks are SELV/Class 2 and they must be isolated and segregated from mains and other wiring and installed per local wiring rules. This is a Class 2 device and must only be connected to Class 2 wiring. Use Class 2 approved power supplies only.

It is recommended that an electrician perform this installation.

Do not expose this device to rain or moisture. Connect the cable shield to the shield termination provided on the device connection port. RS485 cable shield must be earthed by terminating to the nearest grounding conductor. Installation, programming and maintenance must be carried out by qualified personnel.

Never connect network devices to a live network. Power down all load controllers and network power supplies before connecting devices or adjusting the DyNet network.

### Safety Instructions

**Read Instructions** – We recommend that you read this Installation Guide prior to commencement of installation. Refer to Specification Sheet for product performance data.

**Mounting Location** – Install horizontally with writing correct way up, in a dry well-ventilated location.

**Power Sources** – This device should only be operated from the type of supply specified on the front cover. This device must be earthed.

**Data Cable** – Use screened stranded RS485 data cable with three twisted pairs. Segregate from mains cables by 300mm minimum. A data cable that is connected to an energized device is live. Do not cut or terminate live data cables. The current carrying capacity of communication cables shall be at least equal to the total current limitation of the connected power supplies.

**Installation** – Must be done in accordance to the local wiring code/rules. The building automation and control system shall comply with HD60364-4-41.

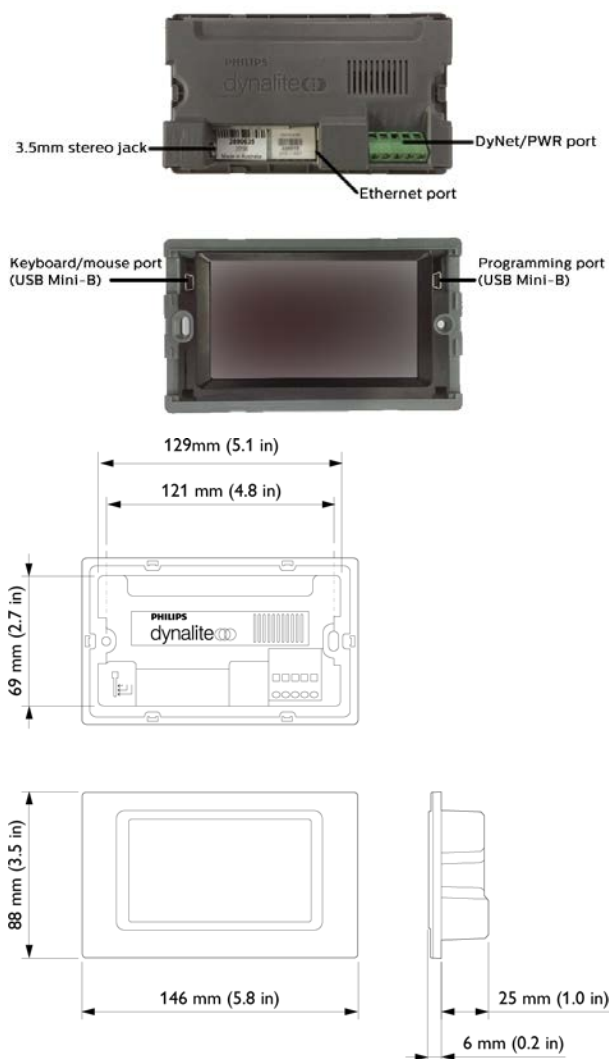
Connect devices in a daisy chain configuration.



## DTP100

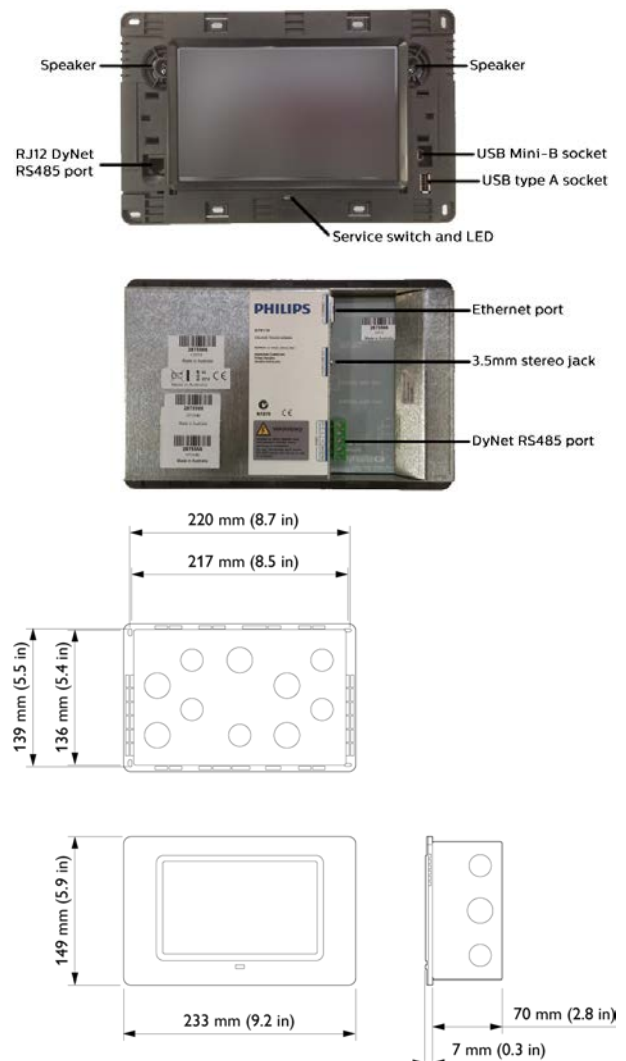
The DTP100 features a 109mm display and can be installed with one of three optional mounting wall boxes:

Part Number	Description
DTP100-WALLBOX-RECESS-METAL	Recess metal wall box
DTP100-WALLBOX-RECESS-DRYWALL	Recess drywall wall box
DTP100-WALLBOX-SURFACEMOUNT	Surface mount wall box (plastic)



## DTP170

The DTP170 has a 178mm display area, and is supplied with a metal recessed mounting box as shown in the hardware diagrams below.



The DTP100 and DTP170 can be mounted in almost any flat architectural medium, and can be matched with any of the Philips Dynalite DR2P Revolution Series UIs for color and décor coordination.

Note that the front USB and DyNet ports on each device are not accessible when the faceplate is attached, and are not required for normal functionality.

## Wall box mounting

### Recessed

Recessed metal and drywall wall boxes have several punch-out glands available to feed cabling to the device. Remove the required gland covers and pull the power and DyNet cables through before securing the box to the wall.

The wall box must be fitted and secured to the surrounding wall using suitable screws for the mounting surface.

Recessed wall boxes require a hole with the following dimensions:

Model	Height	Width	Depth
DTP170	140mm	218mm	71mm
DTP100	78mm	137mm	37mm

Remove the central punch-out gland cover and pull the power and DyNet cables through before securing the box to the wall.

The DTP100 plastic surface mount wall box should be secured to the wall with four screws through the back of the wall box. The DTP100 is then secured to the box using two screws.

### Surface mount

Remove the central punch-out gland cover and pull the power and DyNet cables through before securing the box to the wall.

Secure the DTP100 plastic surface mount wall box to the wall with four screws through the back of the wall box. Then, secure the DTP100 to the box using two screws.

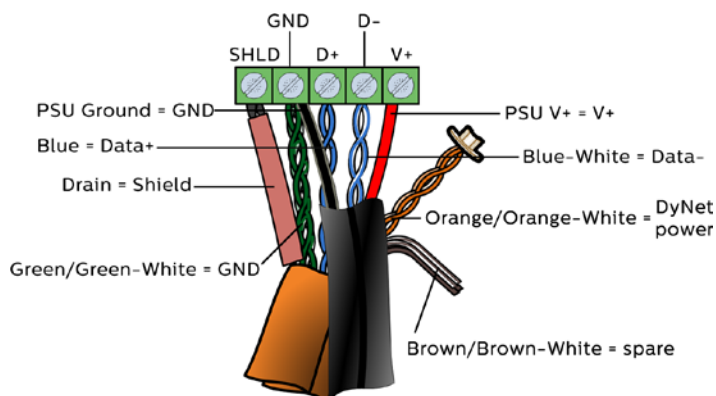
**Note:** Do not over-tighten the screws when mounting the wall box to the surrounding wall.

Recommended torque 0.7 Nm / 6.0 in-lbf

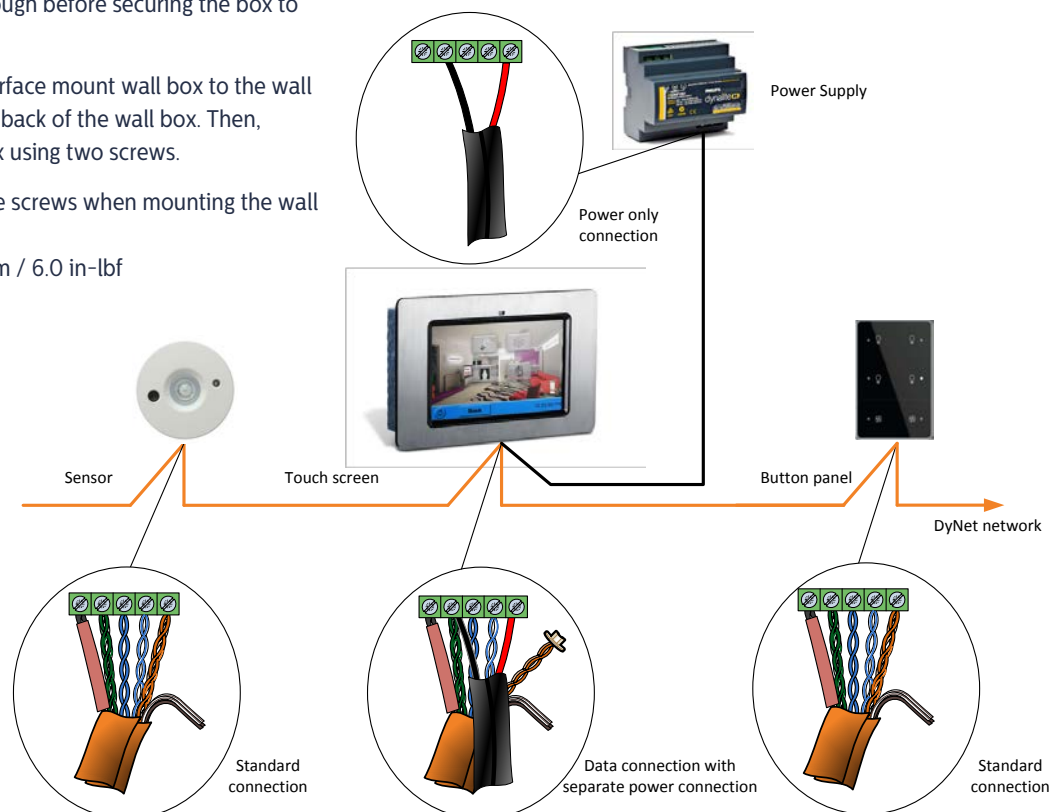
## Network and power termination

Touchscreens require a separate power supply from the DyNet system, as shown in the diagram above. Philips Dynalite recommends using the DDNP1501 Network Power Supply for this purpose.

The diagrams below show the correct DyNet and power terminations for the touchscreen. Note that the DyNet ground wire is connected to the same terminal as the power supply ground connection. The unterminated DyNet pairs must be twisted together to maintain DyNet power continuity.



The following diagram shows the touchscreen is daisy chained to other devices for data in a DyNet installation, while the DyNet power connection bypasses it



## Installation Procedure

1. Pull the DyNet and power cables through the wall box opening so that they can reach the device.
2. Connect the DyNet and power wiring to the terminal strip as shown in the Network and power termination section on page 4.



3. Insert the device into the wall box.



4. Secure the device to the box with the provided screws. Do not over-tighten the screws. Recommended torque 0.5 Nm / 5.0 in-lbf

**DTP100:**



**DTP170:**



5. Orient the faceplate to the front of the device with the wider section of the faceplate at the bottom, then press down until it clicks into place.

**DTP100:**



**DTP170:**



The device is now ready to be powered on for use or commissioning. For more information on the commissioning process, refer to the Touchscreen Commissioning Guide.



