

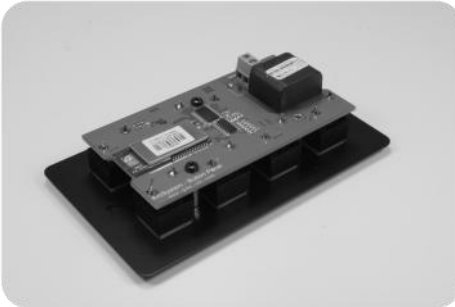
ArcSystem

8 Button Panel Control



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	Project	Typ	Catalog Number
Technical Data Sheet			



ArcSystem is a range of LED auditorium lighting fixtures specifically designed for use within environments where, dimming, quality of light and ease of installation are of paramount importance.

ArcSystem is available in a range of options from single cell to multi cell including 1, 2, 4 and 8 Cells (See other specification sheets). It provides 100% to absolute zero dimming using wired DMX or the wireless ArcMesh protocol.

Fixtures are available in a range of beam angles, using high efficiency optics and LED's.

ArcSystem is able to produce a CRI in excess of 90 with a range of available colour temperatures.

Technical Datasheet.

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Release: Version 2

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General Information

The button panel is able to recall presets stored in the wireless gateway (ARCMTX1). The button panel has a universal mains input and a wireless transceiver for communication with the wireless gateway as standard.

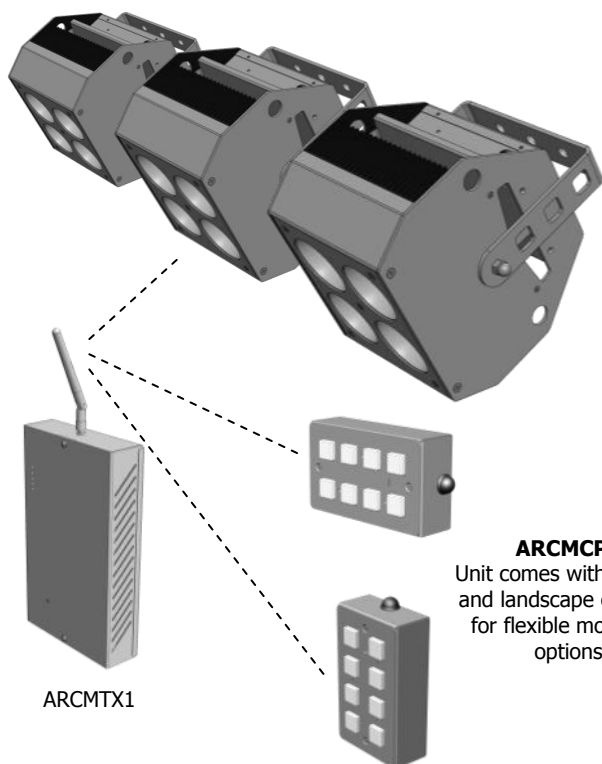
If wired connection is preferred, a wired module is available that allows the button panel to have a wired connection to the wireless gateway. The wired module mounts on the rear of the button panel and uses CAT5/6 cabling.

If using the wired module, power is supplied from the wireless gateway and no local mains power is required.

The button panel is shipped with a landscape overlay attached to the panel. A portrait overlay is supplied with the button panel should this be required. The 8 switch button fronts can be removed and legends inserted for various functions. A standard legend set is issued with each button panel. See Appendix 1

The button panel comes as standard without rear mounting enclosure. It is possible to order the button panel with back box and mains lead for desktop applications, particularly useful for technical rehearsal situations, please refer to ordering matrix. In this case, the button panel will be wireless control only.

The button panel mounts to a standard 35mm+ deep UK double gang back box.



Key Points when used with the wireless gateway (ARCMTX1):

- 90-264VAC mains input
- Portrait or landscape overlays provided
- All buttons have adjustable background and active level from the commissioning Tool software (ARCMCT)
- Standard 2 Gang (UK) mounting format
- Supplied with switch button legends
- All control signals use ArcMesh Wireless control or CAT5/6 wired control with additional wired module
- Control and recall of 24 presets stored in the wireless gateway
- Button lockouts can set through the Commissioning software to prevent activation of buttons in audience areas

To specify state:

A 8 way button panel that connects wirelessly to the ARCMTX1 (wireless gateway), or wired using CAT5/6 cabling, and provides a simple reliable means for recalling presets on the GDS ArcSystem. Unit mounts using a standard 2 gang UK back box , and can be connected directly to the mains supply.

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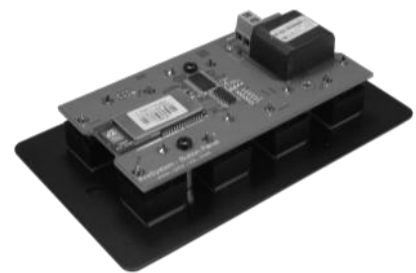


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Options

Order Code:	ARCMCP8
Description	8 button wireless control panel only.

Note 1:
Does not include back box. Will fit standard UK 2 Gang deep back box



Order Code:	ARCMCP8D
Description	8 button wireless control panel complete with desk mount back box and 2M mains lead.

Note 2:
This unit comes as standard for wireless control only. If wired control is preferred, please order the wired module below.

This enclosure is not supplied with a gland for the control cabling.



Order Code:	ARCMCPWM
Description	8 button panel wired control module.

Note 3:
This allows the 8 button panel to operate wired. Fits directly to rear of 8 button panel module. This unit has 4 screw terminals for connecting the CAT5/6 cable to the unit. For pin out details please see control - Configuration.



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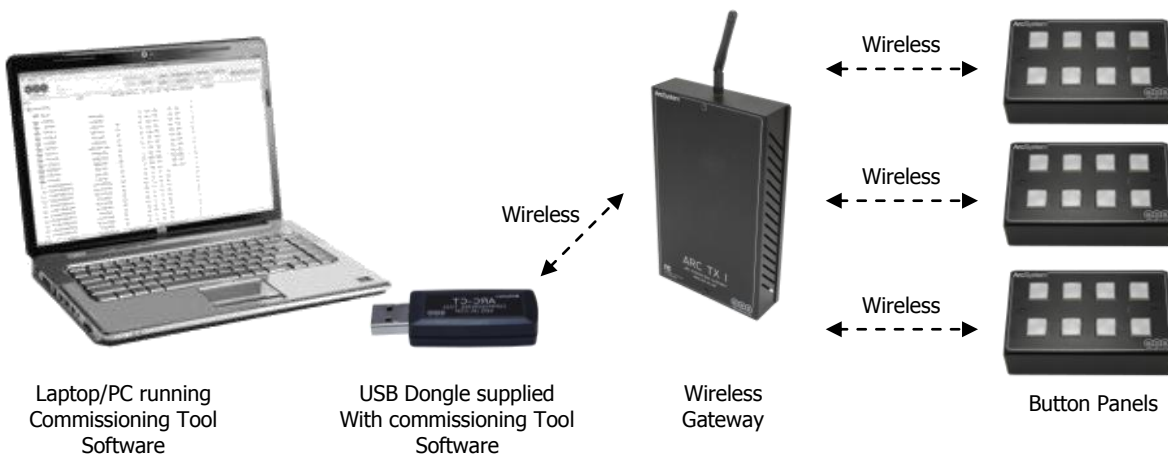


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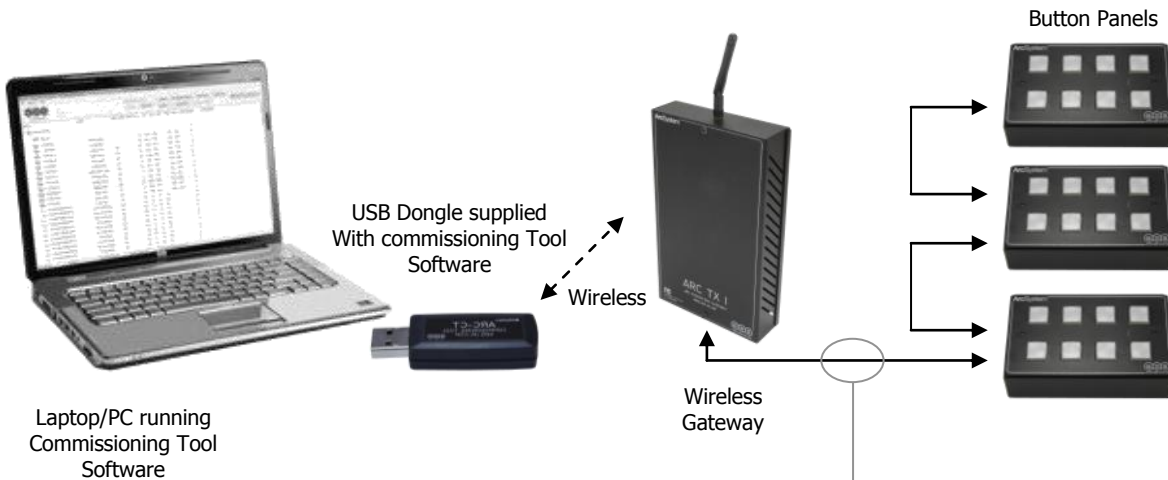
Control - Configuration

Button panels have to connect to a wireless gateway (ARCMTX1). The wireless gateway stores the preset recall data which is activated when a button is pressed. The button panels and presets are configured using the commissioning tool (ARCMCT) software.

Configuration architecture - Wireless:



Configuration architecture - with Wired module:



Wired connection is achieved using CAT5/6 cabling. Protocol is RS485 Half Duplex, 4 wire. Connection can be ring or star format or mixture of both.

Pin out as follows:

1, Wht/Org	Data +
2, Org	Data -
3, Wht/Grn	0V
4, Blu	n/c
5, Wht/Blu	n/c
6, Grn	0V
7, Wht/Brn	+V
8, Brn	+V

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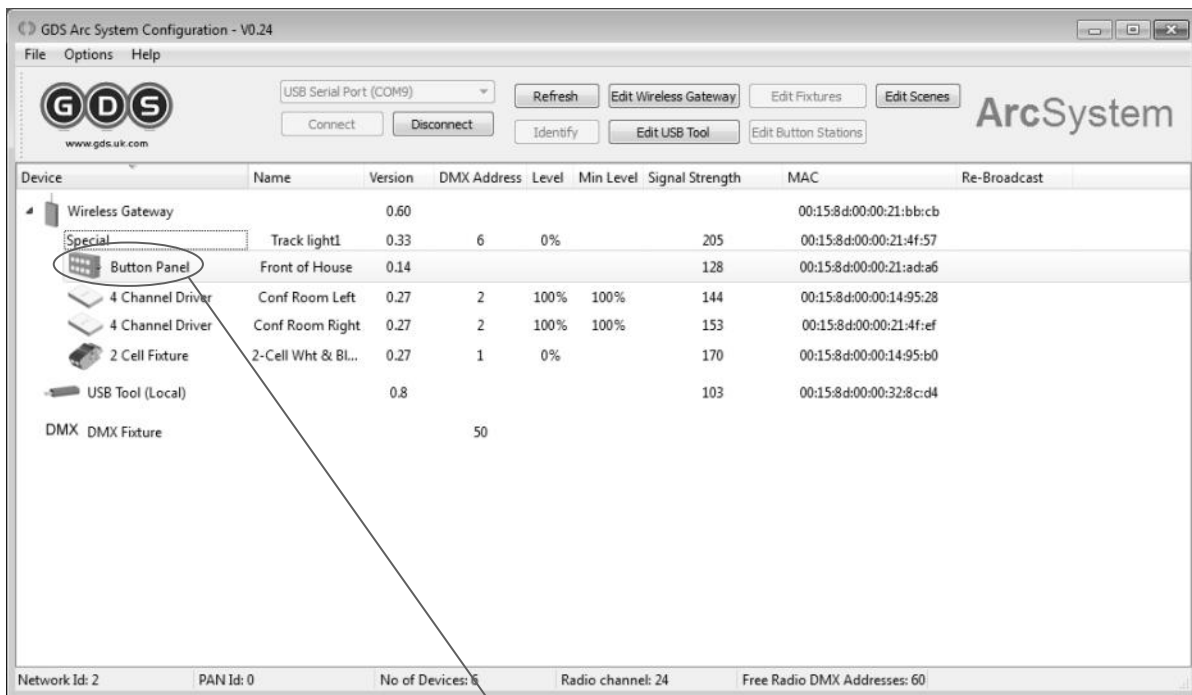
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Control - Configuration - Cont

Within the Commissioning software, the button panels will appear in the main device list



By selecting the button panel, the 'edit button stations' button will bring the configuration screen up shown below:

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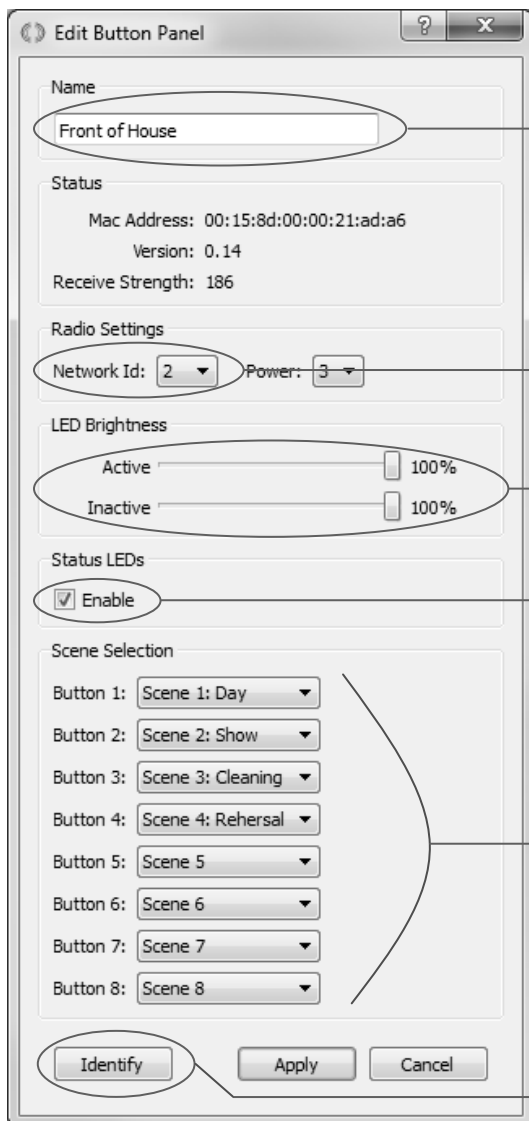
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Control - Configuration - Cont

The Edit button Panel configuration screen:



Name of button panel in system

There are 16 Network ID's available. This allows separate systems to operate within one building such as a main space and studio space. In this case, 2 wireless gateways will be required.

Brightness control of button LED's. Active colour is white, inactive colour is blue.

Where button panels are installed in FOH areas, the internal status LED's can be turned off to avoid distraction.

Stored scenes are assigned to buttons here from the 24 available scenes within the wireless gateway, see next page.

The identify button flashes all 8 buttons so that the location of the button panel can be checked.

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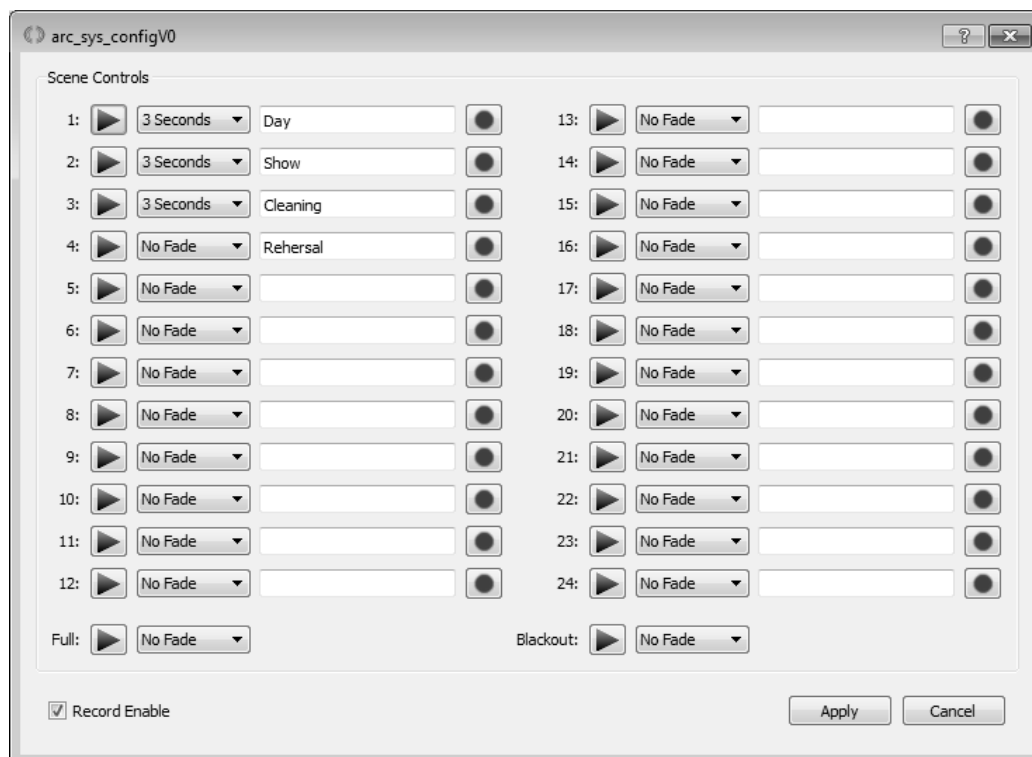


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Control - Configuration - Cont

The 24 available scenes that are stored in the wireless gateway are simply recorded from the DMX feed and given fade times and names, as below. Once this has been completed, they can be assigned to each switch button on the button panel.



General Notes:

Once the scenes have been stored in the wireless gateway, they are held in non volatile memory for recall as required.

Any number of buttons on any number of button panels can be assigned to each scene.

The switch buttons operate in one of two ways and this can be changed through the commissioning Tool software. This setting is global and applies to the whole system. The operation is as follows:

1. Toggle Mode

By pushing the switch, the scene will be recalled using the set fade time above. By pushing the same button again, the scene will be faded to zero. This mode is ideal for instances where multiple areas need to be controlled simultaneously and avoids having many 'OFF' buttons, as it may be a requirement to turn one area off, but leave another on. In this case, when the scene is recorded, the DMX channels at level 0 will not be stored, so that there levels remain unchanged when that scene is recalled.

2. Exclusive Mode

This is more suited to traditional control of house lighting, where only one button can be active on a button panel at a time. In this mode, the button panel is normally programmed to have switches such as 'ON', '75%', '50%', '25%' and 'OFF'. In this mode only one preset can be active at any time. This mode can be less confusing to the operator.

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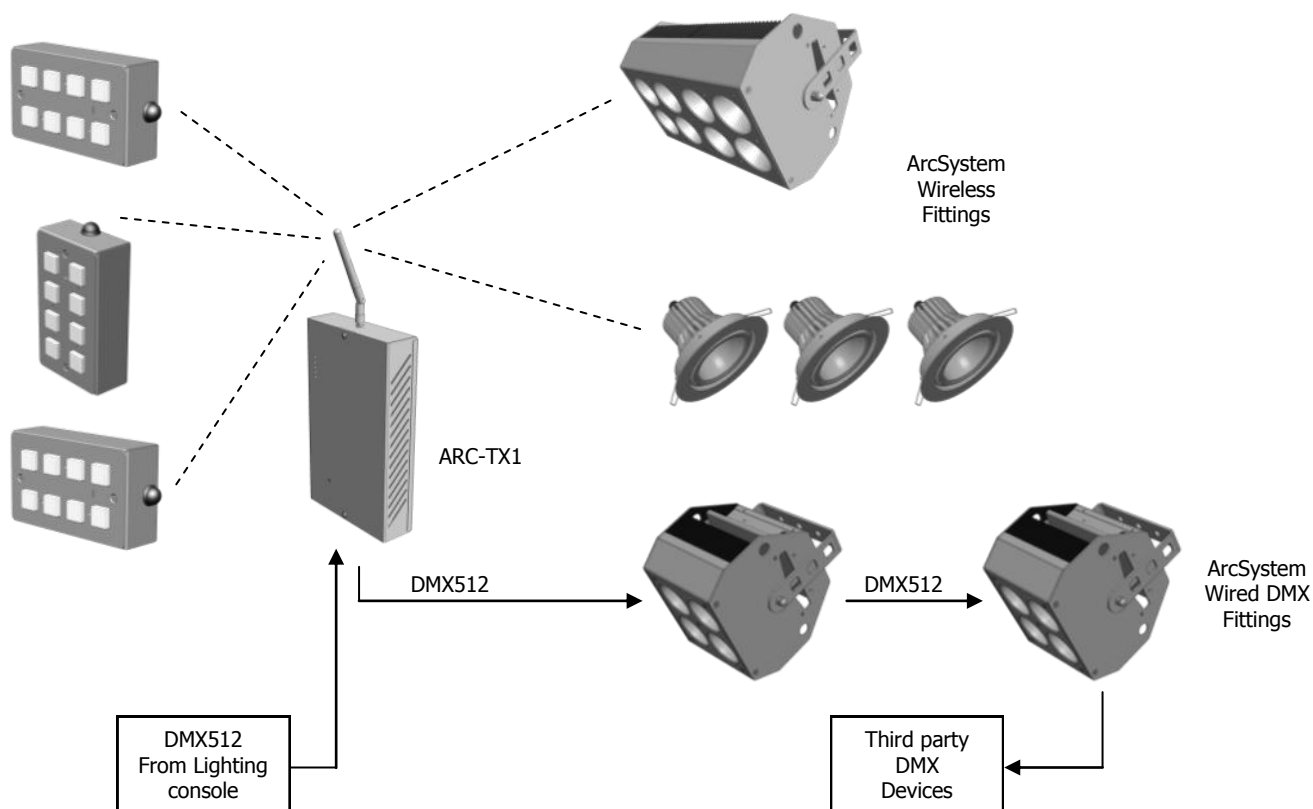
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Control - Operation

Control with the button panel and DMX

Button panels and DMX512 from the lighting desk can be used together in one venue as required. In addition, both wired and wireless units can operate from the wireless gateway simultaneously.



Using the DMX output port at the gateway

When replaying the stored scenes, the DMX output port at the gateway can be used to control any wired ArcSystem and other third party devices.

There are 64 control channels within the ArcSystem architecture which can have DMX channels assigned to them. These channels can be ArcSystem fittings or third party devices. In the case of controlling third party devices, a DMX fixture is added to the device list.

Once this is done, its levels can be stored along side the ArcSystem fittings in a preset.

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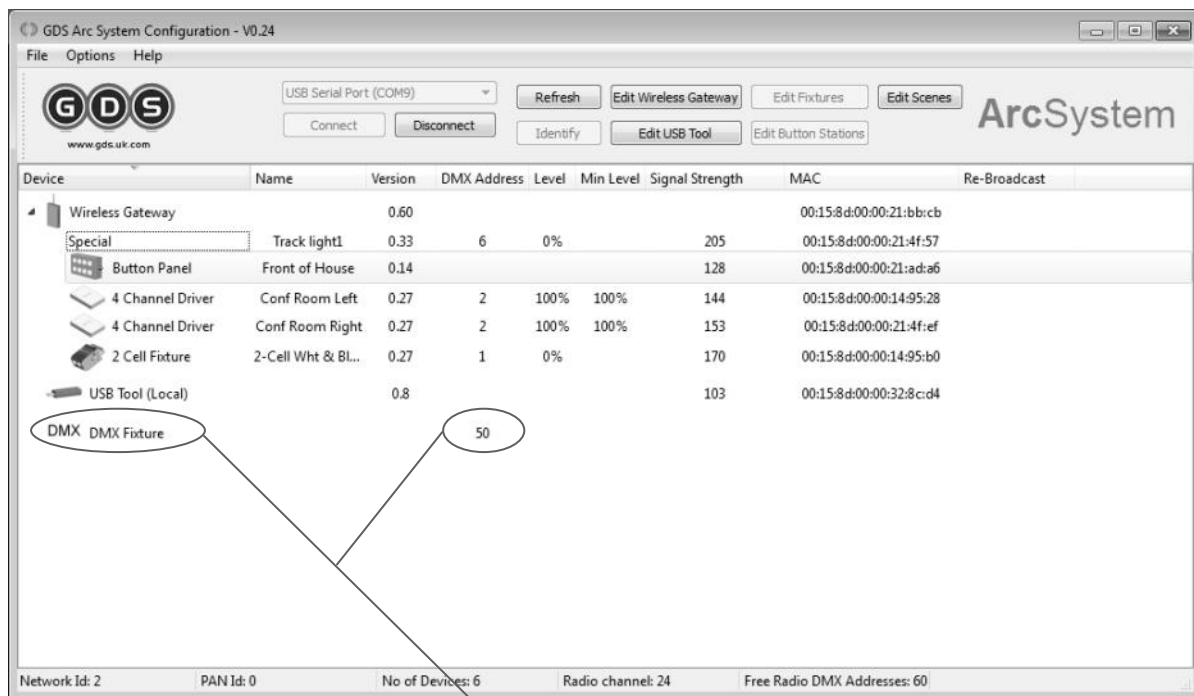
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Control - Operation - Cont

The DMX fixtures are created and shown in the main tree for outputting preset levels at the DMX out port in the wireless gateway.



In this case DMX channel 50 can now be stored in the scene presets and will output from the DMX port in the wireless gateway.

Basic Physical Information

- Unit Weight 0.5 Kgs / 0.2 lbs
- Height = 47.5mm / 1.8"
- Width = 88mm / 3.5"
- Length = 148 / 5.8"

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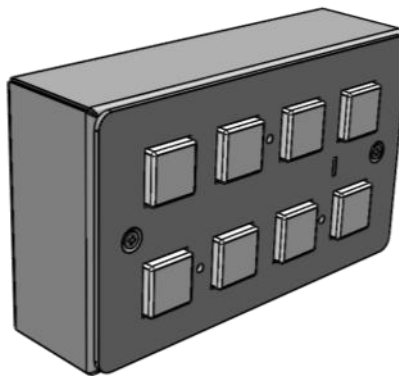
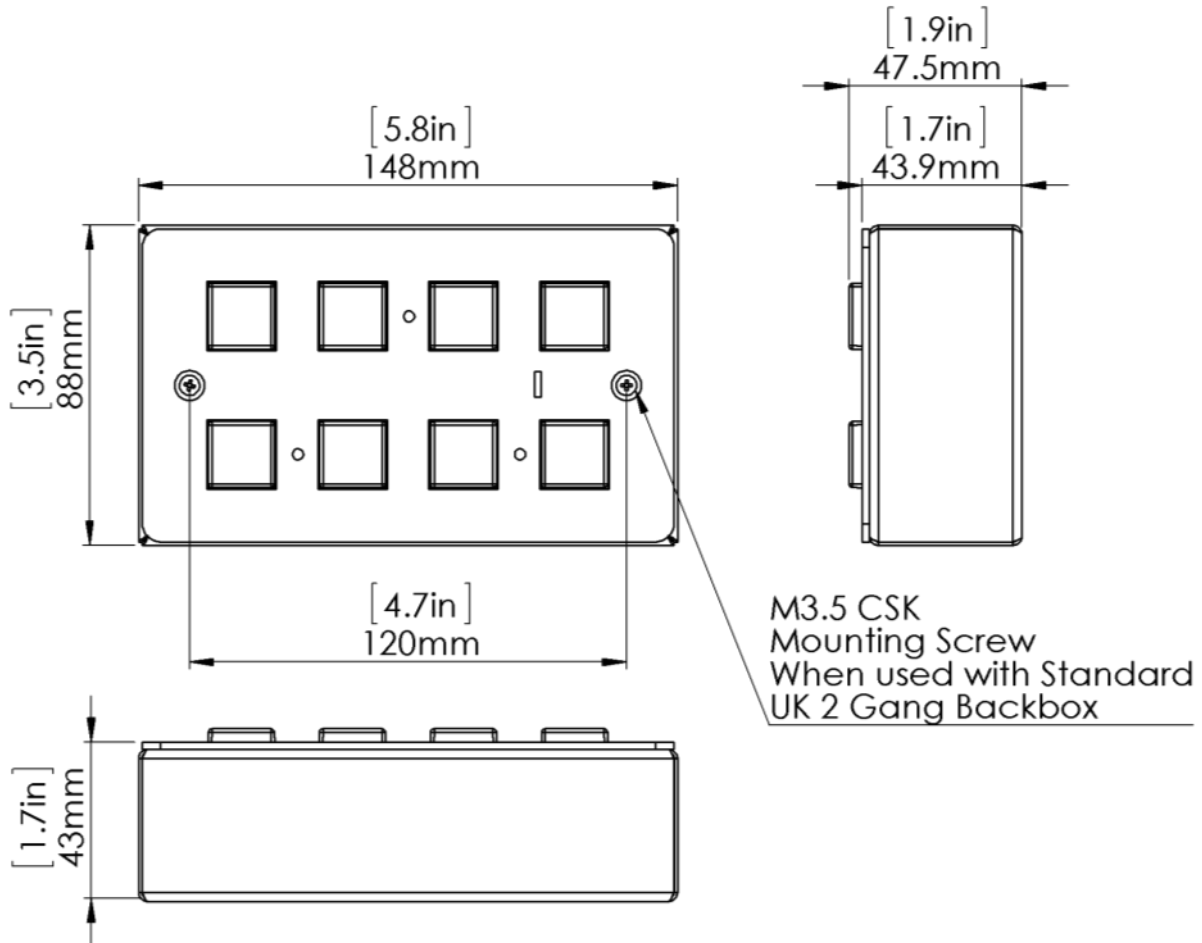
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Dimensional Data - With Back Box



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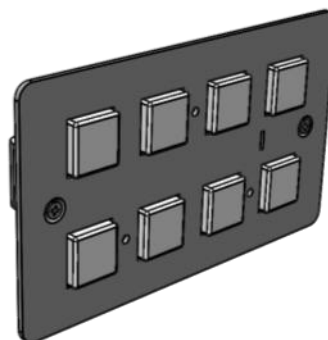
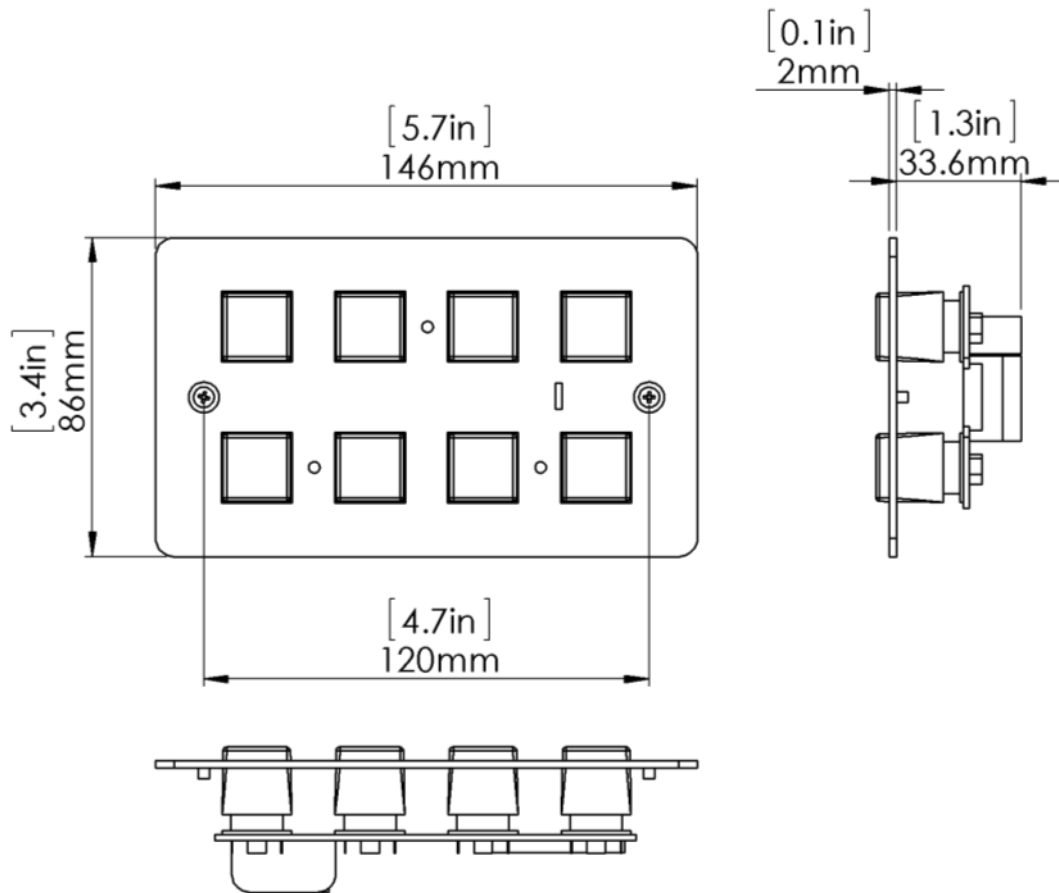
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Dimensional Data - Without Box



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Appendix 1 - Switch Legend Data

PRESET 1	PRESET 2	PRESET 3	PRESET 4	HOUSE LIGHTS	STAGE	AUD	75%	PRESET 1	PRESET 2	PRESET 3	PRESET 4
PRESET 5	PRESET 6	PRESET 7	PRESET 8	DAY	NIGHT	CLEAN	100%	PRESET 5	PRESET 6	PRESET 7	PRESET 8
ON	OFF	ON/OFF	25%	1	2	3	4	ON	OFF	ON/OFF	25%
LOW	MEDIUM	FULL	50%	5	6	7	8	LOW	MEDIUM	FULL	50%
PRESET 1	PRESET 2	PRESET 3	PRESET 4	HOUSE LIGHTS	STAGE	AUD	75%	HOUSE LIGHTS	STAGE	AUD	75%
PRESET 5	PRESET 6	PRESET 7	PRESET 8	DAY	NIGHT	CLEAN	100%	DAY	NIGHT	CLEAN	100%
ON	OFF	ON/OFF	25%	1	2	3	4	1	2	3	4
LOW	MEDIUM	FULL	50%	5	6	7	8	5	6	7	8