Instructions

Mike Ayres Design

SWITCH2 CONTROL UNITS & POINTS

ONE CHANNEL PORTABLE AND FIXED
Product codes: 1205-002 to 1205-013

Introduction

The Switch2 Control Units and Points allow you to operate individual pieces of equipment independently in a number of different modes, either directly or radio remotely.

You can use almost any type of switch with a 6.35mm (¼″) or 3.5mm mono jack plug to operate mains powered electrical equipment.

The Switch2 Control Units internal functions operate at 5 volts and the actual jack socket outlets to switches operate at zero voltage.

All of the controls are operated with touch buttons, which need no pressure to activate.

The Switch2 Control Units operate equipment in four different switching modes and are iPad control compatible. (See note).

The Switch2 Control Units are available in manual (switches plugged directly into the unit) or radio remote version (switches plugged into a transmitter and operated from anywhere in the room, or controlled via an iPad).

Functions within the Switch2 Control Unit

Switching Modes

Ready - Power to the unit

On - Equipment permanently on

Computer - Receiving signal from a computer or iPad

Latched - Switches equipment on and off with alternate activation of switch

Momentary - Operates equipment for as long as switch is activated

Timed - Operates equipment for a predetermined length of time (up to 90 minutes) when switch is activated

Switch buttons - Green discs on the Switch2 Control Unit switches equipment in any of the modes (except the Computer mode)

3.5 mono jack socket and 6.35mm (¼) jack sockets
You can use almost any type of external switch to operate equipment plugged into the sockets.

Lock - Enables you to lock all of the switch buttons and functions on the face of the Switch2 control unit (to prevent inappropriate use of the Switch2 unit). External switches can still be used.

Advanced Programming features

Channel number   Determines which channel each individual Switch2 unit functions on.

Brightness   Offers nine levels of brightness for the display.

Studio number   Determine which studio the Switch2 Control Unit is allocated to (This only applies if you have more than one Sensory Room or Studio within the building).

How to use the Switch2 Control Unit or Point

Note that each channel operates independently and must therefore be programmed separately.

a) Plug the unit into a 13 amp electrical socket – The channel number that it is programmed to will show in the display and then the "Ready" light will illuminate

b) Touch the 'Mode ▶◀' button to step through the options of :
> **On**
> **Computer** (only works with the S4 WiFi Base Unit)
> **Latched**
> **Momentary**
> **Timed** (it displays the last set time)

c) Just leave the display in the mode you want to use and the unit sets itself to that mode.

The 'Modes'

On
When selected there will be a slight delay and then the equipment plugged into the unit will be permanently on. Switching to any other mode will switch the equipment off

Computer
This mode will only activate when the system is controlled by the **S4 iPad app.**

Latched
Switches equipment on with the first activation of a switch and off with the second activation. This can be repeated as often as you wish. (The indicator next to 'On ▶' will glow when a switch is activated).

Momentary
Switches equipment on, for as long as a switch is activated. (The indicator next to 'On ▶' will glow when a switch is activated).

Timed
Switches the equipment for a predetermined period of time. From 1 second up to 90 minutes. When in this mode, the switch control displays the time at which it was last set. To adjust the time, touch the 'Up ▲' or 'Down ▼' button. If you keep your finger on the button, the timer will fast forward or back.
To cancel the timed operation at any point during its countdown just touch the 'Mode ▶◀' button.
(The indicator next to 'On ▶' will glow when a switch is activated).

d)   Plug the equipment you want to operate into the Switch2 Control Unit
        (If the piece of equipment has it's own ON/OFF switch, make sure that it is
        switched ON).

        Notes:
                1 – The total output of all the equipment plugged into the
                    Switch2 Control Unit must not exceed 10amps.
                2 – The piece of equipment must be able to withstand frequent
                    switching on and off.
                3 – Equipment with Infra-red remote control will not usually
                    work with Switch2 Control Units.

e)   Plug a switch into either of the jack plug sockets, it is now ready for use

        Notes:
                1 – You can use virtually any type of switch that does not
                    need external power to activate it.
                2 – Virtually any manufacturers switches will operate with
                    Mike Ayres Design Switch2 Control Units.
                3 – Switches with 6.35mm (¼″) and 3.5mm Mono jack plugs
                    are compatible with the units.

To use the Switch2 Control Unit radio remotely

a)   Plug in and set the Switch2 Control Unit to the mode you
        want to use it in.
b)   Plug the piece of equipment into the Switch2 Control Unit.
c)   Plug a switch into either of the sockets of the Universal Transmitter.
        The transmitter will display the channel it was last set at.
d)   Touch the 'Up ▲' or 'Down ▼' button on the transmitter to find the
        channel that matches the Switch2 Control Unit.
e)   Activate the switch and the equipment will operate in the mode that
        you have selected on the Control Unit.

To Lock the buttons on the Switch2 Control Unit

All of the buttons on the Switch2 Control Unit can be locked at any time. This is to
prevent users interfering with the system once you have set it. Equipment can still
be operated by any switches plugged into the sockets on the unit or via a Universal
Transmitter.

a)   Each of the 2 channels are locked separately.
b)   Set the mode and times that you want.
c)   Touch the white 'Lock ●' button (keep your finger on it) and then
        touch the 'Mode ▶◀' button and hold them both for 3 seconds. A
        tone will sound and two lights will be displayed on the screen. The unit
        functions are now locked.

To unlock Switch2 Control Units repeat the locking instructions.

Radio Remote Use

Default channel – Radio remote switch2 Control Units are set to a channel when you receive them. If you are using more than one unit within the same building you need to programme each one to a different channel number to avoid interference between the units. This is very easy to do and you only have to do it once.

To programme the Radio Remote channel into the Switch2 Control Unit

a)   Plug the unit into a 13 amp socket

b)   Touch the 'Mode ▶◀' button until only the light next to '**Ready**' is illuminated

c)   Touch the 'Mode ▶◀' and the 'Down ▼' buttons together for 3 seconds (a tone will sound) and the display will show '**Pr**' for 1 second. It will then display the channel number that the Switch2 Control Unit is set at, e.g **01**

d)   Touch the 'Up ▲' or 'Down ▼' button to change the channel to the one you want. eg **03** or **15** etc.

e)   Just leave it on the number you want and wait for 5 seconds. When the unit has programmed itself to that channel a tone will sound and the unit will revert to the '**Ready**' mode.

f)   Each time you plug in the Switch2 Control Unit the channel number will be displayed for one second. To make identification easy stick a transfer number in the top left corner on the front of the unit (a set is provided with each unit)

    i)   Cut the number you want from the strip

    ii)   Peel the white paper off the back.

    iii)   Position the number carefully.

    iv)   Press it down hard with your finger and then peel/roll the cover paper off, press the number down again to make sure it is firmly fixed.

Advanced programming

To change the Brightness

a)   Touch the 'Mode ▶◀' button until the light next to '**Ready**' is illuminated.

b)   Touch the 'Mode ▶◀' and the 'Down ▼' buttons together for 3 seconds (a tone will sound) and the display will show '**Pr**' and then the number that the Switch2 Control Unit is set to e.g **01.**

c)   Touch the 'Mode ▶◀' button again and the display will show '**br**' and then a number between 1 and 9. This is the current brightness setting.

d)   Touch the 'Up ▲' or 'Down ▼' buttons to change between the number and thus the brightness level.

e)   Just leave it on the setting you want and wait for 5 seconds. When the unit has programmed itself to that setting a tone will sound and the unit will revert to the ready mode.

To change the studio number

This will only need to be done if you have more than one room with Switch2 and Switch4 Controls within the same building and you want to use the same channel numbers on different Control units.
Allocating different Studio numbers will eliminate the possibility of transmitters in one environment switching controllers in another.
It is possible to have up to 4 Studios or areas.

You will only have to set the Studio number once.

Note: The Universal Transmitters will also have to be set to the corresponding Studio number. (refer to the Universal Transmitter Instructions)

a)   Touch the 'Mode ▶◀' button until the light next to '**Ready**' is illuminated.
b)   Touch the 'Mode ▶◀' and the 'Down ▼' buttons together for 3 seconds (a tone will sound) and the display will show '**Pr**'
c)   Touch the 'Mode ▶◀' button again and the display will show '**St 1**' (or whichever studio it is currently set to).
d)   Touch the 'Up ▲' or 'Down ▼' buttons to change to the studio number you want to use for the room or area that you are in.
e)   Once you have done this, just wait for 5 seconds you will hear a 'beep' and the Control Unit will have set itself and will revert to the 'Ready' mode.

Technical Information

There are no user serviceable parts inside the Switch2 Control Units. The plug top is fitted with a 13amp fuse.
The Switch2 Control Units operate equipment to a maximum of 10 amps.

The frequency of Radio Remote Switch2 Control Units is 433.92

If failure occurs the Switch2 Control Unit needs to be returned to Mike Ayres Design at the address below for repair. (Please enclose your address and contact details.)

Note: Only Switch2 Control Units manufactured after October 2011 can be controlled by the **S4 iPad app**.
It will also require a Switch4 WiFi Base Unit

Contact:

Mike Ayres Design
Unit 8, Shepherds Grove,
Stanton,   Bury St Edmunds,
Suffolk.   IP31 2AR   UK

Tel: 01359 251551
Fax: 01359 251707
enquiries@mikeayresdesign.co.uk
www.mikeayresdesign.co.uk