

Anytronics : Anylight Outstations

4 Preset Outstation

1.0 Introduction

The Anylight 4 Preset outstation is one of a range of remote outstations manufactured by Anytronics which are compatible with their Anylight interface cards normally fitted inside a dimming pack. The outstations communicate with the interface card over a simple two wire interface and generate the command codes accepted by these interface cards in order to control Channel levels and recall stored Preset scenes.

Key Features of 4 Preset outstation

- Four Preset switches in a compact single patress enclosure
- Preset addresses set on panel back
- Communication with Anylight interface card over two wire interface
- Address range 1-64
- Press and release for slow fade to preset levels
- 'Double click' for fast fade to preset levels
- Press and hold to ramp Preset levels up and down

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2.0 Installation

The outstation can be installed in a standard UK single patress box. Only two low voltage data connections are required back to the A and B buss terminals on an Anylight interface card, and these connections can be made with either polarity. Multiple outstations may be wired in parallel across the A and B buss connections with either polarity. It is important to ensure that one A and one B connection is made from each outstation back to the interface card. Do not wire the outstations in series, or they will not work. A suitably wired outstation is shown in the photo overleaf.

Do not earth or make any other connection to these outstations.

Outstation Addressing

Each outstation can address Presets 1-64. This is arranged by setting Preset bcd switches and switches 1,2 of the adjacent four way DIL switch. There is potential confusion here between the outstation address setting on the bcd switch of 0-F and the resultant interpreted Preset addresses at the interface card of 1-16. To try to overcome this, a lookup table is shown below with address setting shown in the left column, and the resultant Preset addresses shown in the table.

rotary control address setting	Sw1 Off resultant address	Sw1 On resultant address	Sw1 Off resultant address	Sw1 On resultant address
0	1	17	33	49
1	2	18	34	50
2	3	19	35	51
3	4	20	36	52
4	5	21	37	53
5	6	22	38	54
6	7	23	39	55
7	8	24	40	56
8	9	25	41	57
9	10	26	42	58
A	11	27	43	59
B	12	28	44	60
C	13	29	45	61
D	14	30	46	62
E	15	31	47	63
F	16	32	48	64

Note the effect of positions 1 and 2 of the four way DIL switch beside each bcd address switch in adding 16 or 32 to the selected address. If the outstation is set to send commands with addresses in excess of 64, these addresses will be sent modulo 64, ie with 64 removed. This unit might be set to address Presets 63, 64, 65 and 66, but the commands would be in fact sent with addresses 63, 64, 1 and 2.

A further layer of address checking takes place at the interface card which might only have a valid Preset address range of 1-32. In this case, addresses are usually 'rolled over' so that an address of 33 is interpreted as an address of 1. This rollover feature can be disabled at the card however (see installation instructions).

Viewing the panel so that the 'up' arrow on the back points upwards (and so that the bcd switches are at the top), the buttons generate addresses so that addresses rise by one for each step right across the front of the outstation panel. With Preset address set to P and looking at the outstation from the front, the buttons command addresses thus :-

P	P+1
P+2	P+3

3.0 Operation

Preset buttons can be made to produce different results according to how they are operated. A single press and release (or 'single click') operation will call up the stored Preset settings for the addressed Preset. The levels corresponding to this Preset will fade in over the period set by the four way DIL selection switch on the Anylight Interface card, ie over 2.5, 5, 10 or 20 seconds.

Alternatively a 'double click' on the same button will bring in the Preset levels at the fastest rate. Even if a single click operation has been started, a subsequent 'double click' will override this and bring in the Preset at the highest speed.

If Preset DIL switch 3 is set to on, then pressing and holding a Preset button will ramp the levels of the lights in that Preset alternately up or down for fine adjustment of the light levels on the included channels.

Checking outstation operation

Assuming that the outstation is correctly wired and that the Preset addresses are correctly set, you should be able to programme and then recall Preset scenes as described in the Anylight Interface Installation and Operating notes. Any Channel can be included or excluded from stored Presets as explained in these notes.

When an outstation button is depressed, the blue TWIF data LED on the PCB should flash on to show that the command has been accepted. Suggestions for troubleshooting Anylight installations are also included in the Anylight interface installation notes.

2 & 4 Button Outstations

