

Anytronics : Anylight Outstations

‘Static’ Alarm Outstation : AL2401

1.0 Introduction

The Anylight alarm outstation is one of a range of remote outstations manufactured by Anytronics which are compatible with their Anylight interface cards 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 stored Presets.

This panel is designed to allow control of a selected Channel or Preset by a pair of external voltage free contacts (eg on a fire or smoke alarm). When the contacts are closed a selected Channel will quickly fade to full on, or a selected Preset quickly faded in. When the contacts open, the Channel or Preset can be set either to switch off, or to stay on.

Key Features of alarm outstation

- Single patress fitting outstation
- Channel / Preset addressing set on panel back
- Communication with Anylight interface card over two wire interface
- Channel / Preset address range 1-64
- Panel can be configured to provide one of the following
 - Channel On or On/Off control
 - Preset In or In/Off control

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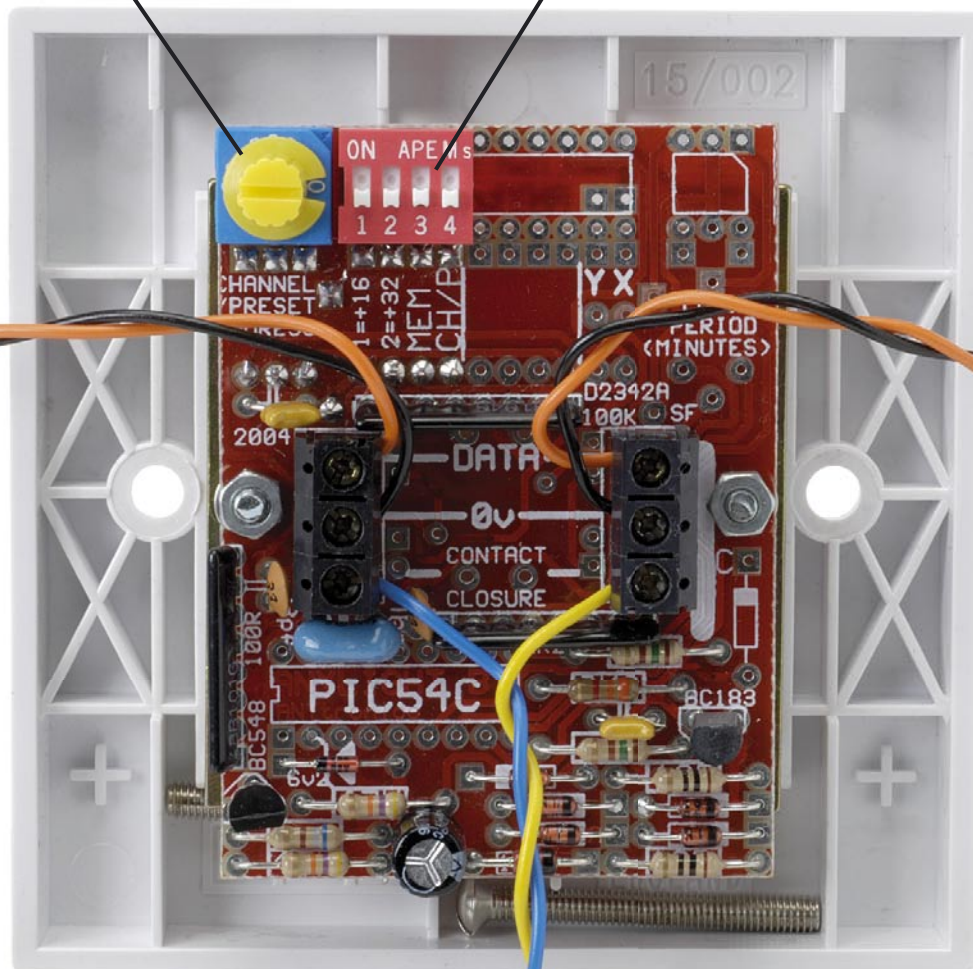
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Preset/Channel
Address BCD Switch

Option DIL Switch

To Anylight
Interface

To Next
Outstation



To Isolated Closing
Contacts

2.0 Installation

The outstation can be installed in a standard UK single patress box. Two separate circuit connections are required. The contact closure sensing inputs need to be connected to an isolated, voltage free pair of closing contacts on the activating alarm system. Ideally this connection will be short and made with a twisted pair of cables, as shown in the photo overleaf. **These contacts must be isolated from all other electrical circuits.**

In addition, the two low voltage data connections '0V' and 'Data' 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.

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

Outstation Addressing

Each outstation can address a single Channel or Preset address from 1-64. The Channel or Preset address is set by using the Address bcd switch 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 Channel or 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 Channel or 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 the bcd address switch in adding 16 or 32 to the selected address.

A further layer of address checking takes place at the interface card which might only have a valid Channel address range of 1-8, or 1-32. In this case, addresses are usually 'rolled over' so that an address of 9 is interpreted as an address of 1 in an eight channel interface (Anylight 8). This rollover feature can be disabled at the interface card however (see installation instructions).

3.0 Operation

The mode of operation of the outstation is selected by DIL switches 3 and 4 beside the address bcd switch, DIL switch 4 selects between Channel or Preset operation.

If DIL switch 4 is set to off, the outstation will quickly fade the addressed Channel to full on when the external contacts are closed. (Note that there is a slight delay to minimise false triggering). When the external contacts open again, the Channel will be left on if DIL switch 3 is set off. The Channel will be quickly faded off if DIL switch 3 is on.

If DIL switch 4 is set to on, the outstation will control a Preset which may consist of any number of controlled Channels. Channels included in the addressed Preset will be quickly faded to the Preset levels when the external contacts are closed (but after a slight delay to minimise false triggering). When the external contacts open again, the Preset will be left on if DIL switch 3 is set off. Channels included in the Preset will be faded off if DIL switch 3 is set on.

4.0 Checking outstation operation

Set DIL switches 1,2,4 to off, switch 3 to on, and the bcd address switch for the address of a Channel which powers lights that are visible from the outstation. Assuming that the outstation is correctly wired and that the Channel address is correctly set, you should be able to control these lights via the contact closure, or via a wire temporarily connected across the contact closure sensing inputs.

Suggestions for troubleshooting Anylight installations are included in the Anylight interface installation notes.