

E-SERIES INTEROPERABLE VAV DIFFUSER ADDRESSING

Models: E-Series BACnet Interoperable Square VAV Diffuser

MAC ADDRESS

The MAC Address must be unique per device on each segment of the network. Unlike the Instance Number, the MAC Address does not need to be unique over the whole network. The same MAC Address may be used on different segments of the network

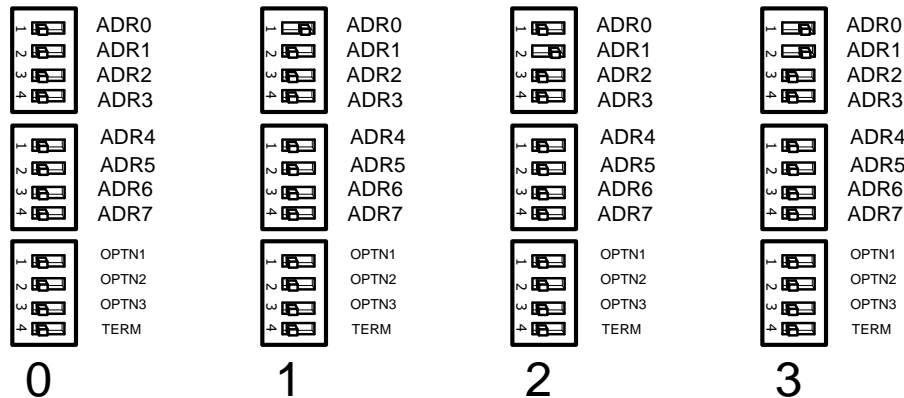
To set the MAC Address use the dip switches labeled ADR0 through ADR6. Start with ADR0 and build a binary number between 0 and 127.

For example to set the MAC Address to 6:

1. Set all the dip switches to the 'off' position
2. Convert decimal number 6 to a binary number (see chart attached) 6 = 0000110
Reading the binary number from right to left corresponds to the dip switches from ADR0 to ADR6
3. Adjust ADR0 to 'off'
4. Adjust ADR1 to 'on'
5. Adjust ADR2 to 'on'
6. Adjust ADR3 to 'off'
7. Adjust ADR4 to 'off'
8. Adjust ADR5 to 'off'
9. Adjust ADR6 to 'off'

Examples of MAC Addresses from 0 to 3 are shown below.

OFF ← → ON



MAC Address

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INSTANCE NUMBER

The Instance Number must be unique per device across the whole network. Instance Numbers may not be repeated anywhere in the network.

To adjust the Instance Number, discover the diffuser using BACnet software and use the *object_identifier* object in the Device Properties of the diffuser. A number between 0 and 4194303 may be entered.

DEVICE PROPERTIES

Last updated: <date>

MAC: 10

object_identifier: device (1234) <----- Instance Number

vendor_identifier: 576

application_software_version: 11.8.2012.041234

firmware_revision: 0.8.8

max_adpu_length_accepted: 50

model_name: EF-B-HC

number_of_adpu_retries: 3

object_name: THERMA-FUSER DIFFUSER

protocol_object_types_supported: analog_input(1), etc...

protocol_services_supported: acknowledge Alarm(0), etc...

protocol_version: 1

segmentation_supported: 3

system_status: non_operational (0x4)

vendor_name: Acutherm

protocol_revision: 9

database_revision: 1

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FORM 091.203 REV 1704

(Supersedes FORM 091.203 REV 1403)

DECIMAL / BINARY / HEXIDECIMAL CONVERSIONS

Decimal	Binary	Hex
0	0000000	00
1	0000001	01
2	0000010	02
3	0000011	03
4	0000100	04
5	0000101	05
6	0000110	06
7	0000111	07
8	0001000	08
9	0001001	09
10	0001010	0A
11	0001011	0B
12	0001100	0C
13	0001101	0D
14	0001110	0E
15	0001111	0F
16	0010000	10
17	0010001	11
18	0010010	12
19	0010011	13
20	0010100	14
21	0010101	15
22	0010110	16
23	0010111	17
24	0011000	18
25	0011001	19
26	0011010	1A
27	0011011	1B
28	0011100	1C
29	0011101	1D
30	0011110	1E
31	0011111	1F
32	0100000	20
33	0100001	21
34	0100010	22
35	0100011	23
36	0100100	24
37	0100101	25
38	0100110	26
39	0100111	27
40	0101000	28
41	0101001	29
42	0101010	2A

Decimal	Binary	Hex
43	0101011	2B
44	0101100	2C
45	0101101	2D
46	0101110	2E
47	0101111	2F
48	0110000	30
49	0110001	31
50	0110010	32
51	0110011	33
52	0110100	34
53	0110101	35
54	0110110	36
55	0110111	37
56	0111000	38
57	0111001	39
58	0111010	3A
59	0111011	3B
60	0111100	3C
61	0111101	3D
62	0111110	3E
63	0111111	3F
64	1000000	40
65	1000001	41
66	1000010	42
67	1000011	43
68	1000100	44
69	1000101	45
70	1000110	46
71	1000111	47
72	1001000	48
73	1001001	49
74	1001010	4A
75	1001011	4B
76	1001100	4C
77	1001101	4D
78	1001110	4E
79	1001111	4F
80	1010000	50
81	1010001	51
82	1010010	52
83	1010011	53
84	1010100	54
85	1010101	55

Decimal	Binary	Hex
86	1010110	56
87	1010111	57
88	1011000	58
89	1011001	59
90	1011010	5A
91	1011011	5B
92	1011100	5C
93	1011101	5D
94	1011110	5E
95	1011111	5F
96	1100000	60
97	1100001	61
98	1100010	62
99	1100011	63
100	1100100	64
101	1100101	65
102	1100110	66
103	1100111	67
104	1101000	68
105	1101001	69
106	1101010	6A
107	1101011	6B
108	1101100	6C
109	1101101	6D
110	1101110	6E
111	1101111	6F
112	1110000	70
113	1110001	71
114	1110010	72
115	1110011	73
116	1110100	74
117	1110101	75
118	1110110	76
119	1110111	77
120	1111000	78
121	1111001	79
122	1111010	7A
123	1111011	7B
124	1111100	7C
125	1111101	7D
126	1111110	7E
127	1111111	7F

