



Soteria Multi-Sensor and Tri-Sensor Detectors Installation Instructions

General

These instructions apply to the installation of the following products:

Part Number	Product Description
SA5100-810APO	Tri-Sensor Detector (Dual Optical/Heat/CO)
SA5100-710APO	Multi-Sensor Detector (Dual Optical/Heat)
SA5100-720APO	Multi-Sensor Detector (Dual Optical/Heat)

For a list of compatible bases, please see the table below. Please refer to the installation guide (IG) of the relevant base for help on how to wire the base.

Part Number	Product Description	IG Number
SA5000-200	XPert 8 Base	39215-005
45681-209	XPert 7 Base - Deep	39214-481
45681-210	XPert 7 Base	39214-481
45681-219	XPert 7 Base - Heated	39214-382
SA5300-300	Soteria Sounder Base	39215-319
SA5300-320	Soteria VID Base (WT FI)	39215-319
SA5300-321	Soteria VID Base (RD FI)	39215-319
SA5300-350	Soteria Sounder VID Base (WT FI)	39215-319
SA5300-351	Soteria Sounder VID Base (RD FI)	39215-319

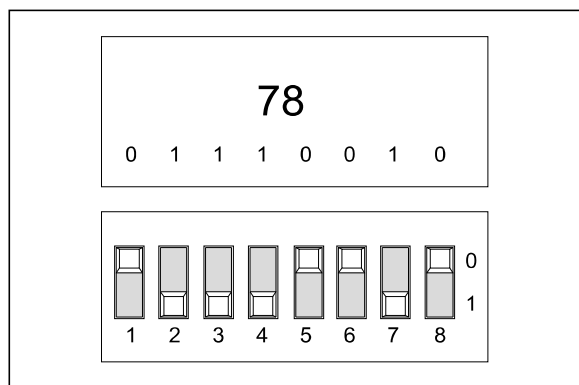
Addressing

The address of the Soteria Multi-Sensor (Dual Optical/ Heat) and Tri-Sensor Detectors is set using the DIL switch on the back of the devices. All segments of the switch are set to 0 or 1, using a small screwdriver or similar tool.

A complete list of address settings is shown in the following table

addr	DIL switch setting 1234567	addr	DIL switch setting 1234567	addr	DIL switch setting 1234567	addr	DIL switch setting 1234567	addr	DIL switch setting 1234567
1	1000000	11	1101000	21	1010100	31	1111100	41	1001010
2	0100000	12	0011000	22	0110100	32	0000010	42	0101010
3	1100000	13	1011000	23	1110100	33	1000010	43	1101010
4	0010000	14	0111000	24	0001100	34	0000100	44	0011010
5	1010000	15	1111000	25	1001100	35	1100010	45	1011010
6	0110000	16	0000100	26	0101100	36	0010010	46	0111010
7	1110000	17	1000100	27	1101100	37	1010010	47	1111010
8	0001000	18	0100100	28	0011100	38	0110010	48	0000110
9	1001000	19	1100100	29	1011100	39	1110010	49	1000110
10	0101000	20	0010100	30	0111100	40	0001010	50	0100110
51	1100110	61	1011110	71	1110001	81	1000101	91	1101101
52	0010110	62	0111110	72	0001001	82	0100101	92	0011101
53	1010110	63	1111110	73	1001001	83	1100101	93	1011101
54	0110110	64	0000001	74	0101001	84	0010101	94	0111101
55	1110110	65	1000001	75	1101001	85	1010101	95	1111101
56	0001110	66	0100001	76	0011001	86	0110101	96	0000011
57	1001110	67	1100001	77	1011001	87	1110101	97	1000011
58	0101110	68	0010001	78	0111001	88	0001101	98	0100011
59	1101110	69	1010001	79	1111001	89	1001101	99	1100011
60	0011110	70	0110001	80	0000101	90	0101101	100	0010011
101	1010011	106	0101011	111	1111011	116	0010111	121	1001111
102	0110011	107	1101011	112	0000111	117	1010111	122	0101111
103	1110011	108	0011011	113	1000111	118	0110111	123	1101111
104	0001011	109	1011011	114	0100111	119	1110111	124	0011111
105	1001011	110	0111011	115	1100111	120	0001111	125	1011111
								126	0111111

An example of how to set the address using address setting 78 is shown below.



The 8th segment must be in set to '0' for Discovery operation.

Technical Data

Part Number	SA5100-810APO	SA5100-710APO / SA5100-720APO
Product Description	Tri-Sensor Detector (Dual Optical / Heat / CO)	Multi-Sensor Detector (Dual Optical / Heat)
Terminal Functions Note: L1 & L2 are polarity sensitive	+L2 Loop in and out positive -L1 in Loop (isolated) negative -L1 out Loop (isolated) negative +R Remote indicator positive connection (internal connection to positive) -R Remote indicator negative connection (4.7 mA maximum)	
Supply Voltage (Vmin-Vmax)	17 V – 35 V dc	17 V – 35 V dc
Digital Communication	Discovery and CoreProtocol	
Modulation Voltage	5 V – 13 V peak to peak	5 V – 13 V peak to peak
Quiescent Current	600 µA	600 µA
Power-up Surge Current	2 mA	2 mA
Alarm Current, LED Illuminated	4 mA	4 mA
Clean-air Analogue Value	23 +2/-0	23 +2/-0
Alarm Level Analogue Value	85 - 97 Specific values based on the cause of the alarm	85 - 97 Specific values based on the cause of the alarm