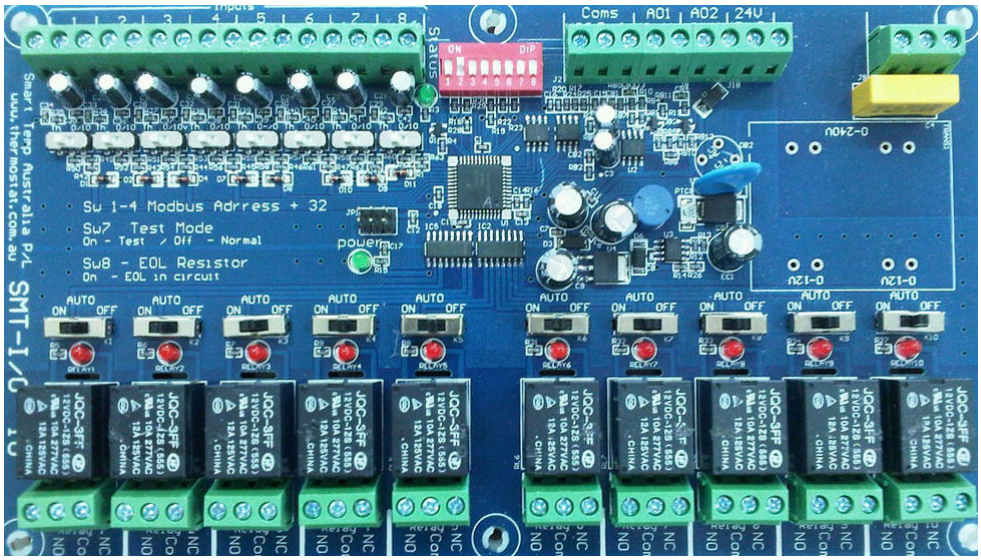
Technical Data Sheet FSC-A-IOM24

Fire & Smoke Control

Universal I/O Module to provide additional inputs and outputs to any BACnet or Modbus system.



Content

Technical Data

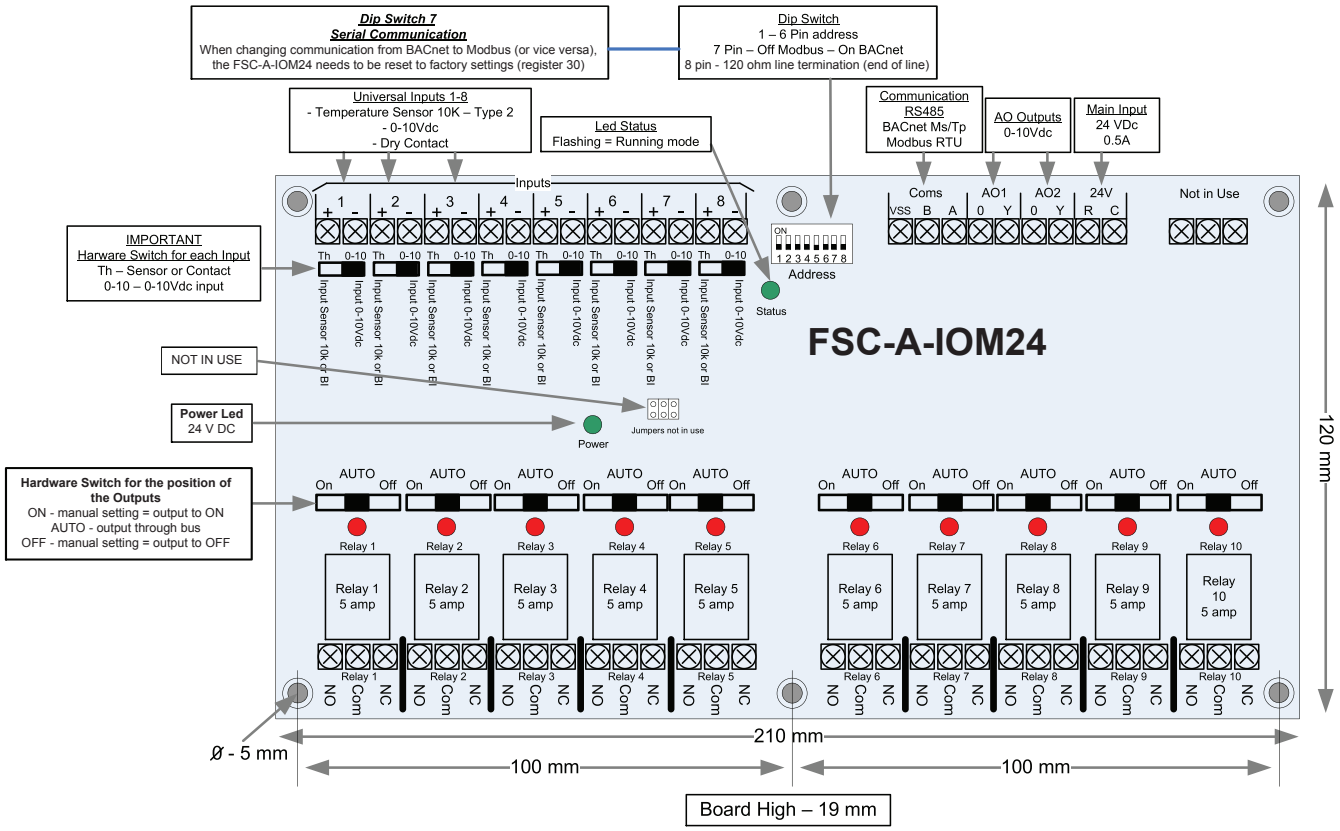
Electrical Data	Operating Voltage	24 V DC
	Power Consumption	< 10 W
	Electric Current	2 A
	Connections	Quick connection terminals
	Connections Inputs	8 universal inputs 0-10V 10K Type II NTC temperature sensors Digital (on/off)
	Connections Outputs	10 relays, change over contacts (potential free), max. 230 V AC @ 5A Each relay is fitted with an on/off/ auto switch 2 x 0-10 V outputs
Communication / Modbus	Application	For easy integration of standard field devices and sensors into any Modbus system
	Protocol	Modbus RTU
	Medium	RS-485, not electrically isolated
	Baud Rates	9.600

	Transmission Formats	Specified by Modbus RTU standards
	Modbus Dedicated Port	Connect any Modbus system to the dedicated port of the FSC-A-IOM24 to monitor or access the parameters in the connected units
	Addresses	Modbus addresses 1-63, settings by dip switches
	Termination	120 ohm line termination. Setting by dip switch
	Typical Response Time	< 200 ms
Communication / BACnet	Application	For easy integration of standard field devices and sensors into any BACnet system
	Protocol	BACnet MS/TP
	Medium	RS-485, not electrically isolated
	Baud Rates	automatic baud rate detection
	BACnet Dedicated Port	Connect any BACnet system to the dedicated port of the FSC-A-IOM24 to monitor or access the parameters in the connected units.
	Adresses	BACnet addresses from 1 to 63, settings by dip switches
	Termination	120 ohm line termination. Setting by dip switch
	Typical Response Time	< 100 ms
Safety	Protection Class	III (safety extra low voltage)
	Protection Degree	IP00, no housing, (optional IP65 with housing)
Mechanical Data (Dimensions / Weight)	Width	120 mm
	Height	19 mm
	Length	210 mm
	Weight	approx. 0.2 kg

See drawing page 4.

Installation	Electrical Cabinet screw fixed Optional: Aluminum support to be mounted on DIN Rail or IP65 with housing
Electrical Installation	See details page 4.
Safety Notes	The FSC-A-IOM24 is not allowed to be used outside the specified field of application, especially in aircraft or in any other airborne means of transport. The company buying and / or mounting the FSC-A-IOM24 on site bears full responsibility for the proper functioning of the whole system. Only authorized specialist may carry out the installation. All applicable legal or institutional installation regulations must be complied with during installation. The device contains electrical and electronic components and is not allowed to be disposed of as domestic refuse. All locally valid regulations and requirements must be observed.
Optional Protection Degree IP65: Version with Housing	Mounting of the FSC-A-IOM24 card into a polycarbonate housing with grey or transparent cover and integrated power supply unit 230 V AC / 24 V DC. FSC-A-IOM24 card with power supply unit are fix mounted and wired. Connection of 230 V AC power supply directly to the power supply unit.
Dimensions of Housing IP65	Length: 244mm Width: 155mm Height: 90mm without cover, 120mm with cover
Input Voltage **Power Supply Unit IP65**	230 V AC 24 V DC 0.42 Amp, 10 Watt
Product Features/Application	The FSC-A-IOM24 is a perfect companion product to integrate other standard components into any BACnet or Modbus network. This means integrating i.e. temperature sensors or switches very easily into a building management system. The FSC-A-IOM24 has a comprehensive BACnet/Modbus objects list whereby all relays and inputs can be monitored and controlled by any BACnet controller or Modbus master device. The inputs are universal. Either 10K NTC type II sensors, digital contacts (inputs On/Off) or analog devices (0-10V) can be connected. The outputs are also universal. It can be chosen between normally open, normally closed and auto (=BACnet or Modbus protocol). Additionally two analog outputs (%) are available. LEDs to indicate status and diagnosis. The FSC-A-IOM24 can be mounted directly in the cabinet or in a standard housing.

Dimensions and Electrical Drawing



Modbus and BACnet address settings

Addr	Dip Switch Position On
1	1
2	2
3	1+2
4	3
5	1+3
6	2+3
7	1+2+3
8	4
9	1+4
10	2+4
11	1+2+4
12	3+4
13	1+3+4
14	2+3+4
15	1+2+3+4
16	5
17	1+5
18	2+5
19	1+2+5
20	3+5
21	1+3+5

Addr	Dip Switch Position On
22	2+3+5
23	1+2+3+5
24	4+5
25	1+4+5
26	2+4+5
27	1+2+4+5
28	3+4+5
29	1+3+4+5
30	2+3+4+5
31	1+2+3+4+5
32	6
33	1+6
34	2+6
35	1+2+6
36	3+6
37	1+3+6
38	2+3+6
39	1+2+3+6
40	4+6
41	1+4+6
42	2+4+6

Addr	Dip Switch Position On
43	1+2+4+6
44	3+4+6
45	1+3+4+6
46	2+3+4+6
47	1+2+3+4+6
48	5+6
49	1+5+6
50	2+5+6
51	1+2+5+6
52	3+5+6
53	1+3+5+6
54	2+3+5+6
55	1+2+3+5+6
56	4+5+6
57	1+4+5+6
58	2+4+5+6
59	1+2+4+5+6
60	3+4+5+6
61	1+3+4+5+6
62	2+3+4+5+6
63	1+2+3+4+5+6

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