

Soteria Switch Monitor Unit Installation Guide

Item No	Part No	Product Description
4110-1104	SA4700-100AMP	Soteria Switch Monitor Unit

Technical Information

All data is supplied subject to change without notice. Specifications are typical at 24V, 25° C and 50% RH unless otherwise stated.

Supply Voltage 17-35V dc Quiescent Current 500µA

Power-up Surge Current 900µA

LED Current 1.6mA per LED

Maximum Loop Current 1A

(I_cmax; L1 in/out)

Operating Temperature -40°C to 70°C

Humidity 0% to 95% RH

(no condensation or icing)

Approvals EN 54-17 & EN 54-18

For additional technical information please refer to data sheet PDS4110-1104 which is available on request.

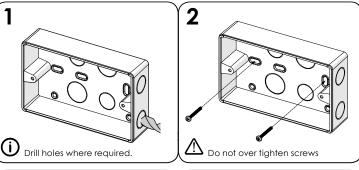
Table 1 Addressing

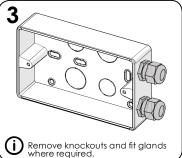
		XP95 / Discovery Systems	Soteria CoreProtocol Systems
	1		
	2		
	3		
	4	Sets the address	Sets the address
ŧ	5		
Segment	6		
èg	7		
0,	8	Set to '0' (Fault value is returned if set to '1')	
	MCP	Priority interrupt - enables MCP behaviour	Enables priority enabled switch monitor behaviour
	DLY	Enables 30 second delay into alarm	Enables 30 second delay into alarm

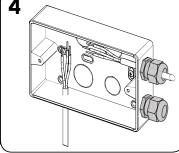
Note:

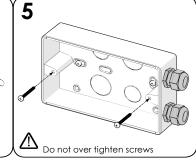
On mixed systems, addresses 127 and 128 are reserved. Refer to system's panel manufacturer for further information.

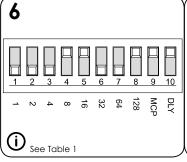
Installation

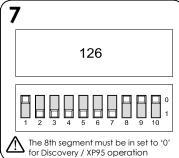


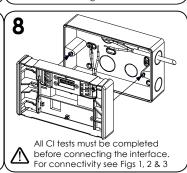


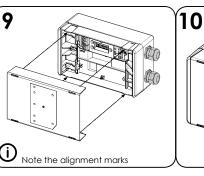


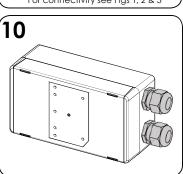




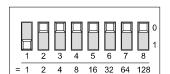






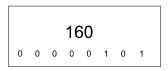


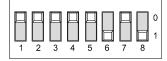
Address Setting Examples

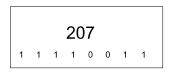


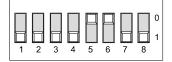




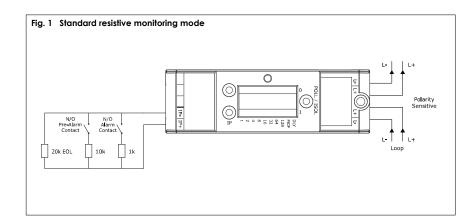


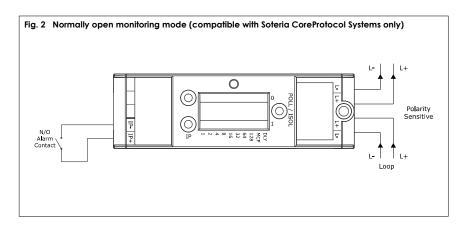


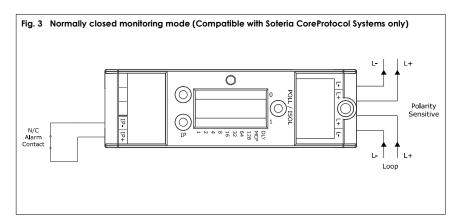




Connectivity Examples







LED Status Indicator

POLL/ ISO	Flashing Green	Device Polled
	Continuous Yellow	Isolator Active
ID		
IP	Continuous Red	Input Active

Note: Not all LEDs can be on simultaneously.

Commissioning

The installation must conform to B\$5839–1 (or applicable local codes).

Maintainence

Removal of the external cover must be carried out using a flat screwdriver or similar tool.

Caution!

Unit damage. No electrical supply greater than 50V ac rms or 75V dc should be connected to any terminal of this Switch Monitor Unit.

Troubleshooting

Before investigating individual units for faults, it is important to check that the system wiring is fault free. Earth faults on data loops or interface zone wiring may cause communication errors. Many fault conditions are the result of simple wiring errors. Check all connections to the unit.

	Incorrect loop wiring
Fault condition reported	Incorrect input wiring
	Incorrect end-of-line resistor fitted
Analogue value unstable	Dual address
_	Loop data fault, data corruption
Constant alarm or pre-alarm	Incorrect wiring
	Incorrect end-of-line resistor fitted
Isolator LED on	Short-circuit on loop wiring
	Wiring reverse polarity
	Too many devices between isolators

Problem Possible Cause
No response or missing Incorrect address setting

Mode Table*

Mode	Description	
1	DIL Switch XP mode	
2	Switch Monitor - normal resistance bands with alarm delays	
3	Priority Switch Monitor - normal resistance bands	
4	Switch Monitor - N/C input with alarm delays	
5	Priority Switch Monitor - N/C input	

^{*}Soteria CoreProtocol enabled systems only

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