

Soteria Input/Output Unit **Installation Guide**

Item No	Part No	Product Description
4110-1101	SA4700-102AMP	Soteria Input/Output 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 900uA

Relay Output Contact Rating 1A at 30V dc or ac

LED Current 1.6mA per LED

Maximum Loop Current 1A

(I_max; 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 PDS4110-1101 which is available on request.

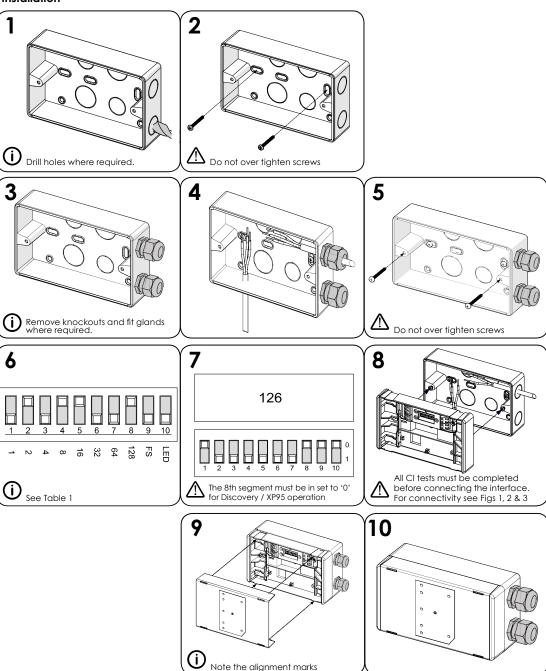
Addressing Table 1

		XP95 / Discovery Systems	Soteria CoreProtocol Systems
	1 2 3	Sets the address	Sets the address
Segment	5 6 7	Seis ine dadiess	sels ine dadiess
Ş	8	Set to '0' (Fault value is returned if set to '1')	
	FS	Enables failsafe mode (compliant with BS7273-4 for door holders)	Enables failsafe mode (compliant with BS7273-4 for door holders)
	LED	Enables/Disables LED (except Isolator LED)	Enables/Disables LED (except Isolator LED)

Note:

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

Installation

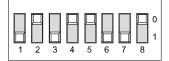


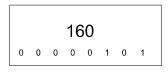
Address Setting Examples

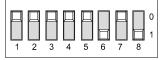
Connectivity Examples

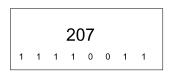




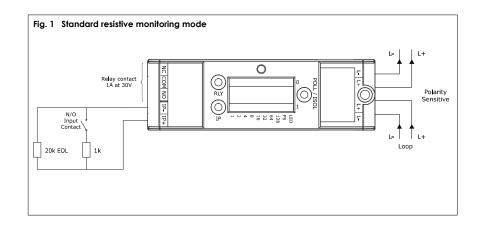


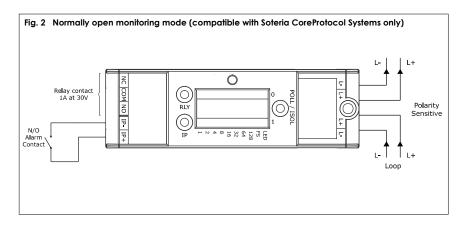


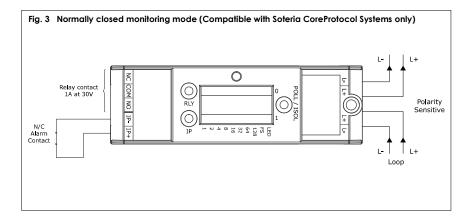












LED Status Indicator

RLY	Continuous Red	Relay Active
KLI	Continuous Yellow	Fault
POLL/	Flashing Green	Device Polled
ISO	Continuous Yellow	Isolator Active
IP	Continuous Red	Input Active
IP IP	Continuous Yellow	Input Fault

Note:

Not all LEDs can be on simultaneously.

Commissioning

The installation must conform to BS5839-1 (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 Input/Output Unit.

Note: For compliance with Electrical Safety Standards the sources switched by the output relays must be limited to a 71V transient over-voltage condition. Contact Ampac for more information.

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.

Problem No response or missing	Possible Cause Incorrect address setting
140 response of missing	Incorrect loop wiring
Fault condition reported	Incorrect input wiring
Relay fails to operate	Incorrect wiring
	Control panel has incorrect cause
	and effect programming
Relay energised continuously	Incorrect loop wiring
	Incorrect address setting
Analogue value unstable	Dual address
	Loop data fault, data corruption
Constant Alarm	Incorrect wiring
	Incorrect end-of-line resistor fitted
	Incompatible control panel software
Isolator LED on	Short-circuit on loop wiring
	Wiring reverse polarity
	Too many devices between isolators

Mode Table*

Mode	Description
1	DIL Switch XP mode
2	Alarm delays
3	Output and N/O input (can be equivalent for output only)
4	Output and N/C Input
5	Output with feedback (N/C)
6	Failsafe output with feedback (N/C)
7	Failsafe output without feedback
8	Momentary input activation sets output relay
9	Input activation sets output

*Soteria CoreProtocol enabled systems only

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