(39215-159/Issue 3)



Intelligent Input/Output Unit Installation Guide

 Part No
 Product Name

 SA4700-102APO
 Intelligent Input/Output Unit

Technical Information

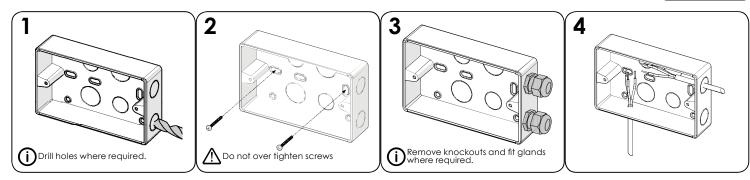
All data is supplied subject to change without notice. Specifications are typical at 24V, 25°C and 50% RH unless otherwise stated.

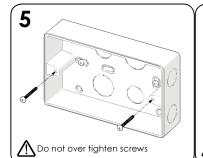
Supply Voltage	17-35V dc
Quiescent Current	500µA
Power-up Surge Current	900µA
Relay Output Contact Rating	1A at 30V dc or ac
LED Current	1.6mA per LED
Maximum Loop Current	1A
(I _c max; L1 in/out)	
Operating Temperature	-40°C to 70°C
Humidity	0% to 95% RH (no condensation or
Approvals	EN 54-17 & EN 54-18

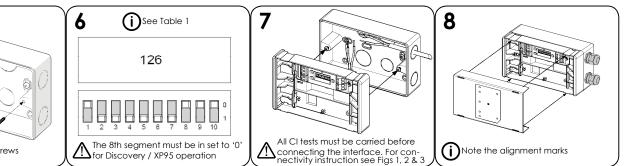
For additional technical information please refer to the following documents which are available on request.

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PP2553 - Intelligent Input/Output Unit







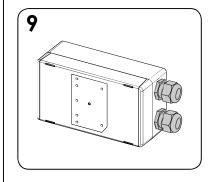
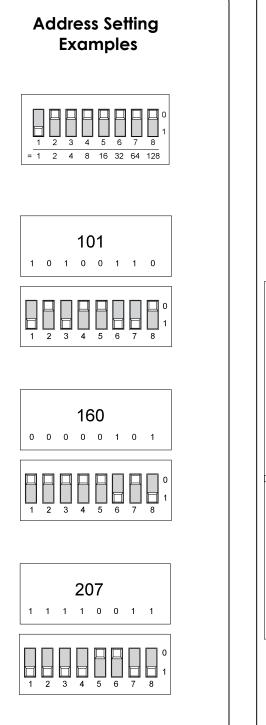


Table 1

Addressing

		XP95 / Discovery Systems	CoreProtocol Systems
	1		
	2		
	3		
+	+ 4 Sets the address		Sets the address
ent	5		Sels me address
15	6		
Seg	7		
	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.



Connectivity Examples

Fig. 1 Standard resistive monitoring mode / MD2400 & MD2400L

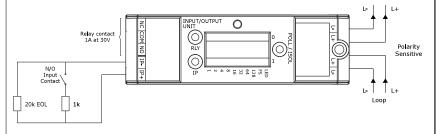
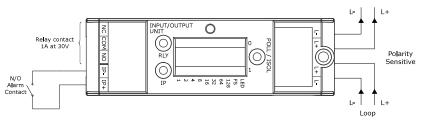
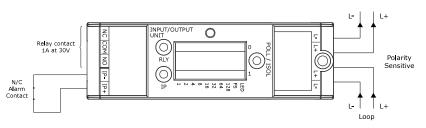


Fig. 2 Normally open monitoring mode (compatible with CoreProtocol only)







When operated under XP95 or Discovery Protocols, EN54-13 type 2 devices can be connected. In case EN54-13 type 1 devices need to be connected they must be installed directly next to this module, with no transmission path according to EN 54-13.

LED Status Indicator

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

Note: Not all LEDs can be on simultaneously.

Commissionina

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 Apollo 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 Possible Cause

No response or missing Fault condition reported Relay fails to operate Relay energised continuously		Incorrect address setting Incorrect loop wiring Incorrect wiring Control panel has incorrect cause and effect programming Incorrect loop wiring	
	Analogue value unstable	Incorrect address setting Dual address	
Constant Alarm		Loop data fault, data corruption 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 Tal	ble*		
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)		

Failsafe Output with Feedback (N/C)
 Failsafe Output without Feedback
 Momentary Input Activation Sets Output Relay
 Input Activation Sets Output

*CoreProtocol enabled systems only

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