(39215-159/Issue 1)



Intelligent Input/Output Unit Installation Guide

 Part No
 Product Name

 \$A4700-102APO
 Intelligent Input/Output Unit

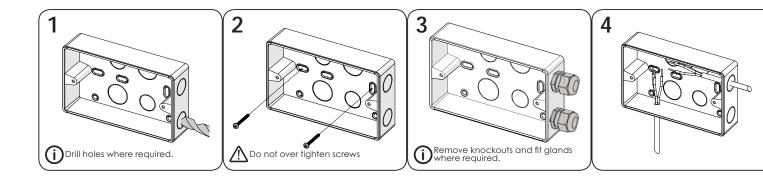
Technical Information

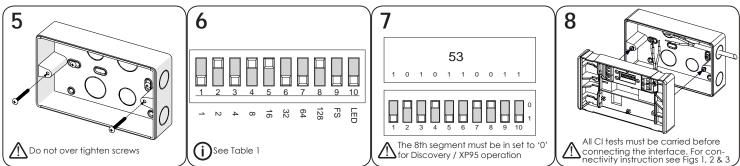
All data is supplied subject to change without notice. Specifications are typical at 24V, 25°C and 50% RH unless otherwise stated.

Supply Voltage	17-35V dc
Quiescent Current	500μΑ
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 icing)
Approvals	EN 54-17 & EN 54-18

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

PP2553 - Intelligent Input/Output Unit





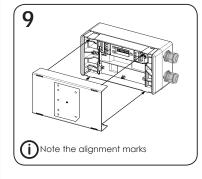
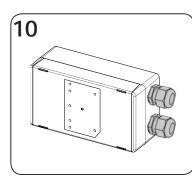


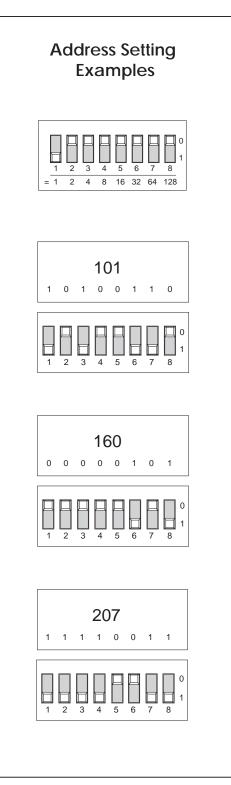
Table 1

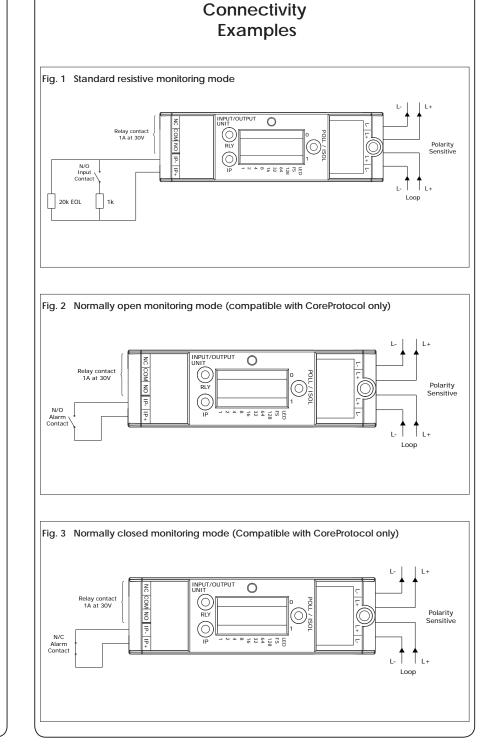


Addressing

		XP95 / Discovery Systems	CoreProtocol Systems
	1		
	2		
Segment	3		
	4	Sets the address	Sets the address
	5		sels me address
	6		
	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 B\$7273-4 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.





LED Status Indicator

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

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

<u>Unit damage. No electrical supply greater than 50V ac rms or 75V dc</u> 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 ay energised continuously Analogue value unstable Constant Alarm Isolator LED on	Incorrect address setting Incorrect loop wiring Incorrect wiring Control panel has incorrect cause and effect programming Incorrect loop wiring Incorrect address setting Dual address Loop data fault, data corruption Incorrect end-of-line resistor fitted Incorrect wiring Incorrect ond-of-line resistor fitted Incorrect wiring Short-circuit on loop wiring Wiring reverse polarity Too many devices between isolators			
Mode Tal	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				

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9	Input Activation Sets Output	
*CoreProtocol enabled systems only		

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