(39215-169/Issue 1)



Intelligent Twin Input/Output Unit Installation Guide

 Part No
 Product Name

 \$A4700-104APO
 Intelligent Twin Input/Output Unit

Technical Information

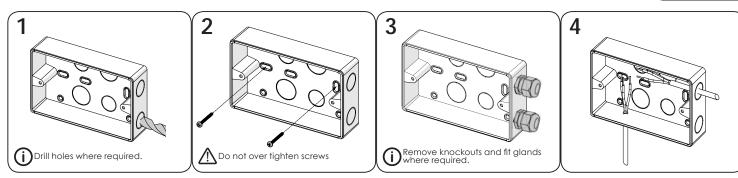
All data is supplied subject to change without notice. Specifications are typical at 24V, 25°C and 50% RH unless otherwise stated.

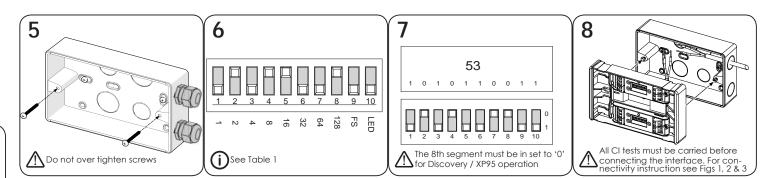
The following specifications relate to each of the individual internal units.

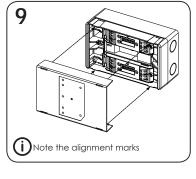
Supply Voltage	17-35V dc
Quiescent Current	500µA
Power-up Surge Current	900µA
Relay Output Contact Rating	1A at 30V dc or ac
LED Current	1.6mA per LED
Maximum Loop Current	1A
(I _c max; L1 in/out)	
Operating Temperature	–40°C to 70°C
Humidity	0% to 95% RH
	(no condensation or icing)
Approvals	EN 54-17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

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

PP2552 - Intelligent Twin Input/Output Unit







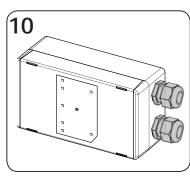
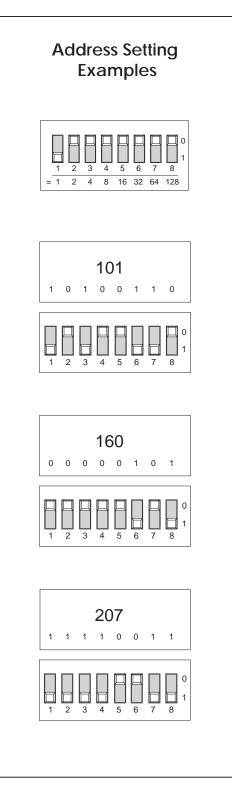


Table 1

Addressing

		XP95 / Discovery Systems	CoreProtocol Systems
Segment	1		
	2		
	3		
	4	Sets the address	Sets the address
	5		Seis 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 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

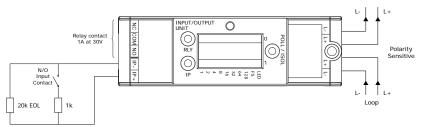


Fig. 2 Normally open monitoring mode (compatible with CoreProtocol only)

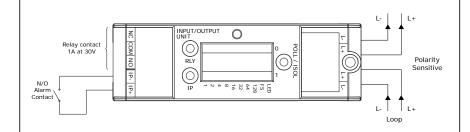
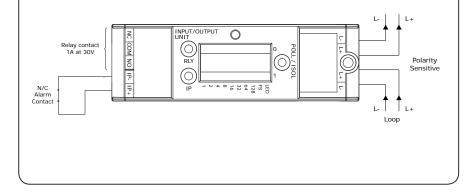


Fig. 3 Normally closed monitoring mode (Compatible with CoreProtocol only)



LED Status Indicator

Commissioning

Maintenance

or similar tool.

Caution

Mode

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	Continuous Yellow	Input Fault

Note: Not all LEDs can be on simultaneously.

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

Removal of the external cover must be carried out using a flat screwdriver

Unit damage. No electrical supply greater than 50V ac rms or 75V dc should be connected to any terminal of this Twin 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	Incorrect address setting Incorrect loop wiring
Faul	t condition reported	Incorrect input wiring EOL resistor missing
Relay fails to operate		Incorrect wiring Control panel has incorrect cause and effect programming Incorrect loop wiring Incorrect address setting Dual address Loop data fault, data corruption
Relay energised continuously		
Analogue value unstable		
	Constant Alarm	Incorrect wiring; Incorrect end-of- line resistor fitted
	Isolator LED on	Incompatible control panel software Short-circuit on loop wiring; Wiring reverse polarity Too many devices between isolators
lode Tabl	e*	
Mode	Description	
	1	

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	
*CoreProtocol enabled systems only		

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