(39215-170/Issue 1)



Intelligent Twin Switch Monitor Installation Guide

 Part No
 Product Name

 SA6700-100APO
 Intelligent Twin Switch Monitor

Technical Information

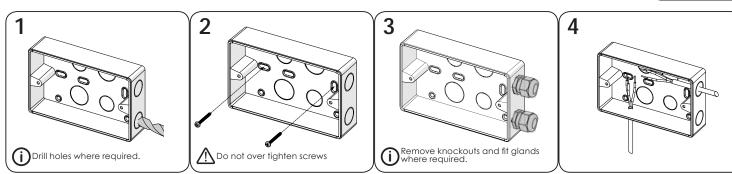
All data is supplied subject to change without notice. Specifications are typical at 24V, 25°C and 50% RH unless otherwise stated.

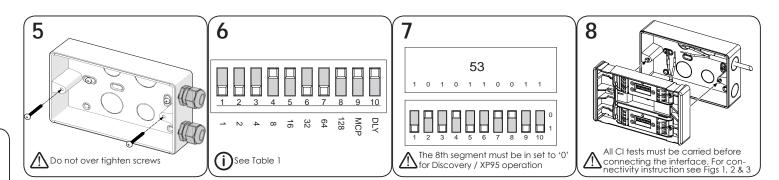
The following specifications relate to each of the individual internal units.

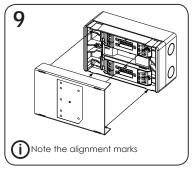
	17.051/
Supply Voltage	17-35V dc
Quiescent Current	500µA
Power-up Surge Current	900µA
LED Current	1.6mA per LED
Maximum Loop Current	1A
(I _c max; L1 in/out)	
Operating Temperature	-40°C to 70°C
Humidity	0% to 95% RH
2	(no condensation or icing)
Vibration, Impact and Shock	

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

PP2558 - Intelligent Twin Switch Monitor







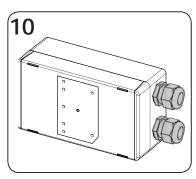
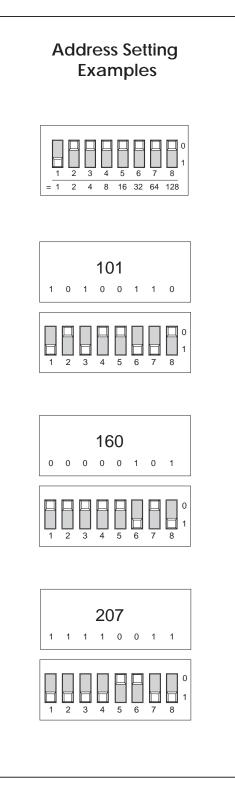


Table 1

Addressing

		XP95 / Discovery Systems	CoreProtocol Systems
	1		
Segment	2		
	3		
	4	Sets the address	
	5		Sets the address
	6		
	7		
	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.



Connectivity Examples

Fig. 1 Fully Monitored

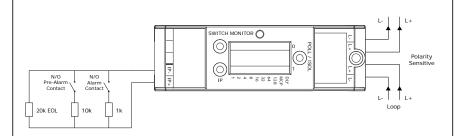


Fig. 2 Unmonitored (S/C for Alarm) (Compatible with CoreProtocol only)

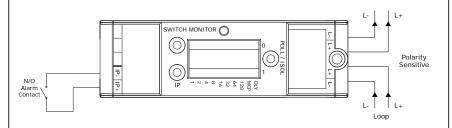
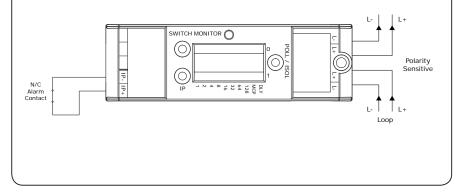


Fig. 3 N/C Monitored Circuit (Compatible with CoreProtocol only)



LED Status Indicator

POLL/ ISO Continuous Yellow Isolator Active IP Continuous Yellow 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

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

Problem Possible Cause

No response or missing Fault condition reported Analogue value unstable Constant alarm or pre-alarm Isolator LED on

Incorrect address setting Incorrect input wiring Incorrect input wiring Incorrect end-of-line resistor fitted Dual address Loop data fault, data corruption Incorrect wiring Incorrect end-of-line resistor fitted Short-circuit on loop wiring Wiring reverse polarity Too many devices between isolators

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		
*CoreProtocol enabled systems only			

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