

Techtrol Alarm Control Panel – ‘TAC’



It is a microcontroller based, control and alarm annunciator panel. It is used along with any level switch having potential free output contacts.

Working:

It consists of microcontroller based control circuit which detects switch inputs i.e. Normally Open (NO) or Normally closed (NC) potential free contacts of the level switch. Maximum 4 no. of switching inputs can be connected to panel.

Various logics can be set through DIP switches provided on PCB which are site settable. It is provided with 1 SPDT relay output against each input.

LED indications are provided for relay status and alarm condition.

Hooter alongwith flashing LED is provided for alarm annunciation. Alarm can be reset by pressing ‘ACCEPT’ push button.



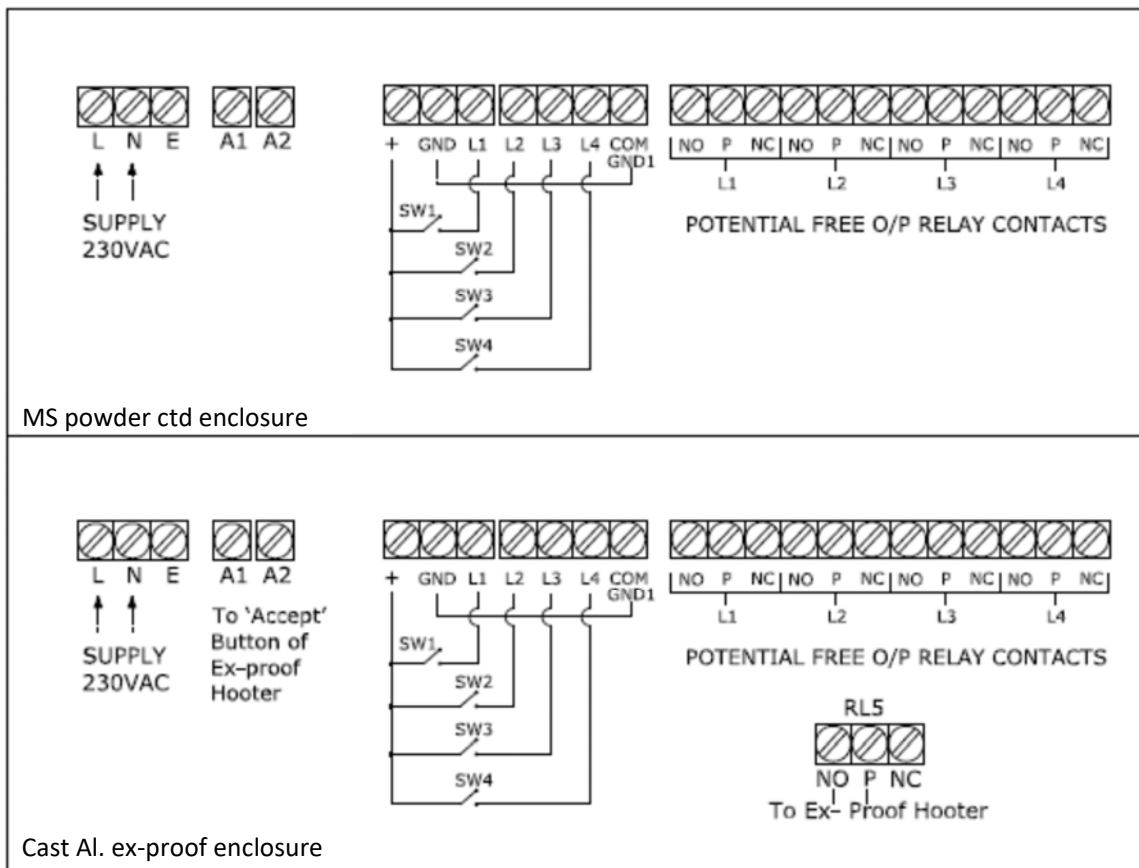
Specifications

Circuitry	: Microcontroller based
Supply	: 90-270 VAC or 24 VDC ($\pm 10\%$)
Digital Inputs	: 4 nos., Potential Free NO or NC contacts from level switch
Output	: Relay, SPDT 5A, 250 VAC for each input
Auxiliary Supply	: 24 VDC, 50 mA
Alarm Annunciation	: Through hooter (separate ex-proof hooter for hazardous area applications) 'Accept' push button on panel for alarm reset
Alarm Mode Selection	: Through DIP switch (site settable)
Indication	: Red LED x 4 nos. for each input (LED ON = Relay ON in Normal Mode) : Orange LED x 4 nos. alarm indication for each input (when alarm mode is selected)
Power ON/ OFF	: Through switch with lamp
Fail safe condition	: Normal mode / FSL or FSH mode selection through DIP switch (site settable)
Logic Selection	: Through DIP switch (site settable) Refer table 1 for various logic functions
Panel	: 1) MS Powder Ctd. Enclosure, Wall Mounted; Size: 256 x 256 x 160 mm (D) 2) Cast Al. Enclosure Ex d Gr. IIB, Wall Mounted; Size: 220 x 220 x 110 D mm
Cable Glands	: 5 nos. x PG 11 Cable Gland, Nylon 4 nos. x 1/2" NPT DC Cable Gland, Brass (Ex d Enclosure)

Table -1 Logic Functions

1.	Individual level operation. As input switch is detected, relay output will be ON or OFF
2.	Latching for pump control between L1 & L2 and L3 & L4
3.	Latching for pump control between L1 & L2 and individual level operation of L3 & L4
4.	Latching for pump control between L3 & L4 and individual level operation of L1 & L2
5.	Latching for pump control between L2 & L3 and individual level operation of L1& L4
6.	L1 & L2 with DPDT o/p with individual level operation (with 2 switch inputs)
7.	Latching for Pump Control - between L1 & L2 with DPDT o/p (with 2 switch inputs)

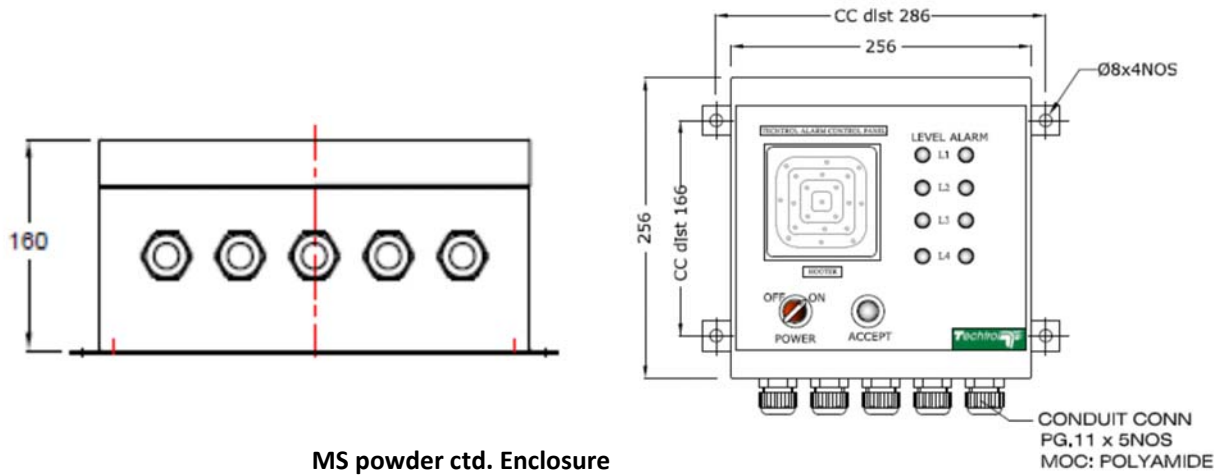
Termination & Wiring



MS powder ctd enclosure

Cast Al. ex-proof enclosure

Mounting Dimensions



Model Identification

		TAC -	
1. Panel x Cable Gland			
MS Powder Ctd. Enclosure, Wall Mounted x PG 11 Cable Gland		J	
Cast Al. Enclosure Ex d Gr. IIB, Wall Mounted x ½"NPT DC Cable Gland		E	
2. Supply			
90-270 VAC			1
24 VDC			2

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