

PRE-ACTION SPRINKLER RELEASE PANEL



FEATURES

- * Low standby power consumption
- * 1st stage Alarm auxiliary contacts
- * 2nd stage Alarm auxiliary contacts
- * System “Charged” auxiliary contacts
- * Fault auxiliary contact
- * Remote Status outputs
- * Monitored Valve Status inputs
- * Variable Solenoid delay/off timer
- * Three position mode select key switch
- * Internal Power supply for both Standby and Emergency Battery
- * Complies with the requirements of BS EN 12845: 2019
- * Meets the supplementary requirements For LPC Technical Bulletin 208

GENERAL DESCRIPTION

The PASRP-1A Control Panel is a stand-alone panel intended for use with a Sprinkler Pre-Action Valve assembly and designed to meet the requirements of BS EN 12845 : 2015 and the LPC Technical bulletin 208.

The panel has 4 input Fire Zones together with an internal power supply and space for both Standby and Emergency Sealed Lead Acid Battery sets

The equipment is housed in an attractively finished metal enclosure with all user controls and indications located on the front panel together with clear operating instructions . A bezel can be fitted to the back box to enable the control panel to be flush mounted .

The “ Alarm Status “ section provides monitoring for four Fire Zones and two Valve Tamper inputs. Status Green LED’s show that the Valves are in their normal operating position.

The “ Pre Action Status “ section provides indication and controls for the Pre Action valve assembly. Monitored inputs for Low Air , System Charged, Manual Release & Manual Only Status are provided.

Monitored Outputs for two Common Fire Sounders together with two 2nd stage outputs (Sounder & Beacon) are provided. The two 2nd stage Solenoid outputs are also monitored for both disconnection and open circuit faults. The monitored Solenoid outputs have an variable ON delay setting (factory set to 40 seconds) before operating together with a variable OFF delay setting (factory set to 40 seconds).

Auxiliary outputs are provided for Common Fire (2 sets CHO) , 1st Stage Operation (2 sets CHO) , 2nd Stage operation (2 sets CHO) , System Charged (1 set CHO) and Common fault (failsafe - 1 set CHO)

Remote Pre-Action Status outputs are given for 1st Stage, Manual Only, System Disabled and System Charged .

For the Pre- Action section, front panel switches are provided for Mode select (key operated) and Manual release (lift flap—push switch) . The Mode select switch provides for Auto/Manual , Manual Only and Disabled modes. When in “Disabled Mode “ the operation the Solenoid delay timer and outputs are inhibited. An internal buzzer will sound which cannot be silenced.

Various Internal DIP Switches allow the user to configure the panel to suit the clients requirements. The operation of the Solenoid outputs can be figured for Single Knock , Double Knock or “Any two from four” Fire Alarm inputs

The Internal power supply provides connection to both the Standby Battery and the Emergency Battery (LPC technical Bulletin 208 supplementary requirement). If both the Primary (mains) and the standby battery both fail , then with the Emergency Battery will automatically operate the Solenoid outputs (failsafe operation). When either of the Primary or Standby battery are re-instated the Solenoid outputs will return to their normal condition.

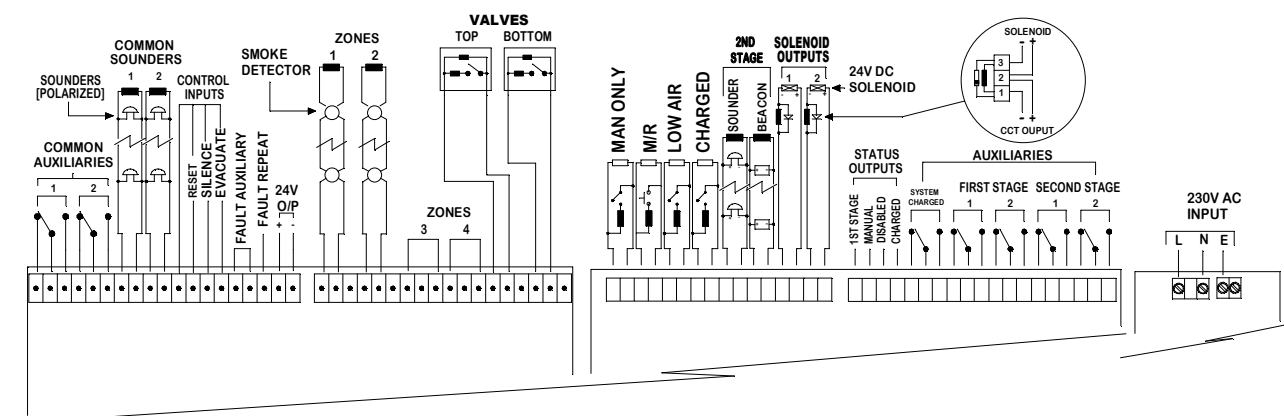
TECHNICAL SPECIFICATION

Mains Supply Input	—	230v AC 50/60 Hz
Nominal panel voltage	—	24v DC
Supply rating / type	—	3 Amp Constant voltage with current limit & thermal shutdown
Auxiliary 24v DC Output	—	500mAmp, fused and monitored
Standby current (Mains fail)	—	130mAmp
Alarm current (Mains fail)	—	240mAmp (1 zone in Alarm)
Fire Zone output voltage	—	20v +/- 5 % Stabilized
End of Line	—	4K7 1/4 watt or Active end of line (Detector removable) - Fire Zone 4K7 1/4 watt - Valve & Pre-Action Section monitoring
Maximum detector current	—	1 mA per zone
Zone fire trip current	—	25 mA
Valve/Pre -Action Trip Resistance	—	470R 1/2 Watt (nominal—range 470R to 680R)
Zone / Valve/Pre Action inputs monitoring	—	Both open and short circuit with internal LED's per input
Sounder / Solenoid Firing monitoring	—	Reverse polarity type , fully monitored for open and short circuit With internal LED's : End of line resistors 4K7 1/4 watt
Maximum alarm load	—	1st Stage - 2.0 Amps , shared between 2 circuits fused @ 3.15 Amps 2nd Stage Solenoid / Sounders & Beacon - 1 Amp Note : Total load not to exceed 2.75 Amps
Common Fire auxiliary	—	2 sets CHO rated at 3 Amps 50v DC
1st stage auxiliary	—	2 sets CHO rated at 3 Amps 50v DC
2nd stage auxiliary	—	2 sets CHO rated at 3 Amps 50v DC
System Charged	—	1 set CHO rated at 3 Amps 50v DC
Fault auxiliary	—	1 set CHO rated at 1 Amp 50v DC (Normally energised- fail safe)
Zone fire repeat	—	Solid state output , switched positive 100 mA 24v DC
Common fault repeat	—	Solid state output , switched positive 100 mA 24v DC
Remote Pre Action status outputs	—	Solid state output , switched positive 100 mA 24v DC
Remote control inputs	—	Alarm Silence , Reset and Evacuate
Construction	—	16 gauge sheet steel , Epoxy powder coated semi-gloss Grey - White with hinged lockable door and Blue screen printed lettering
Enclosure Size	—	500mm Wide x 400mm High x 150mm Deep
Enclosure Weight	—	11 Kg (No Batteries) : 17 Kg (With Batteries)
Cable entry	—	Top entry with 20 mm diameter knockouts
Standby battery space	—	Will accept up to 2 off 12Amp/hr (Standby) & 2 x 2.1 Amp/hr SLA (Emergency) Batteries

ORDER CODE DETAILS

PASRP- 1A : 4 Zone Pre-Action Panel with Internal Power supply no Batteries

PASRP- 1A/BAT : 4 Zone Pre-Action Panel with Internal Power supply with Batteries



**PRE ACTION SPRINKLER RELEASE PANEL
TYPE : PASRP-1A :: TYPICAL WIRING SCHEMATIC**

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