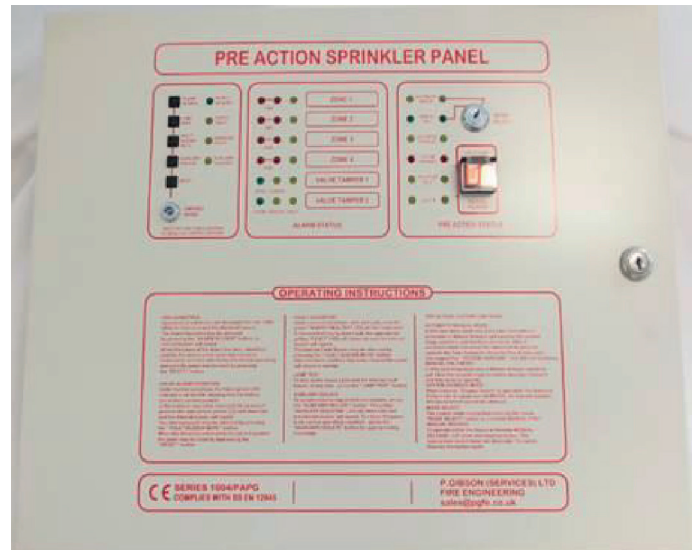


Reliable

Preaction Panel Series 1000MK4

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
- Two position mode select key switch
- Internal Power supply for both Standby and Emergency Battery
- Complies with BS EN 12845



Product Description

The Series 1000 MK4 PAPG Control Panel is a stand-alone panel intended for use with a Sprinkler Pre Action Valve Assembly and designed to conform to BS EN 12845. Available in either 2 zone or 4 zone each with 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 of up to 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 Tripped, Manual Release & Auto/Manual Status are provided. Pre Action monitored Outputs for two Common Fire Sounders, two 2nd stage solenoids together with two 2nd stage outputs (Sounder & Beacon) are provided.

The monitored Solenoid outputs has a variable ON delay timer (factory set to 30 seconds) before operating together with a variable OFF delay timer (factory set to 20 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 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). A internal "System Disabled" switch is provided. When operated the Solenoid delay timer and outputs are inhibited. An internal buzzer will sound which cannot be silenced. Various Internal jumpers allow the user to configure the panel to suit the clients' requirements.

The Internal power supply provides connection to both the standby battery and the Emergency battery. If both the Primary (mains) and the standby battery both fail, then with the Emergency battery (if connected) will Automatically operate the 2nd stage Solenoid outputs (failsafe operation).

Technical Specification

- **Mains Input:** 240v AC 50/60 Hz (other voltages to order)
- **Nominal Panel Voltage:** 24v DC
- **Supply rating/type:** 3 Amp or 5 Amp Constant voltage with current limit & thermal shutdown
- **Auxiliary 24v DC Output:** 500 mAmp, fused and monitored
- **Standby Current:** 5 mA per zone, 70 mA Common functions
- **Alarm Current:** 50 mA per zone (in alarm), 180 mA Common functions
- **Zone Output Voltage:** 20v +/- 5 % Stabilized
- **End of Line:** 5K6 1/4 watt or Active end of line - Fire Zone. 5K6 1/4 watt - Gas section monitoring
- **Max. detector current:** 1 mA per zone
- **Zone fire trip current:** 25 mA
- **Zone/Valve/Pre Action Inputs Monitoring:** Both open and short circuit with internal LED's per zone
- **Sounder/Solenoid Firing Monitoring:** Reverse polarity type, fully monitored for open and short circuit with internal LED's: End of line resistors 5K6 1/2 watt
- **Maximum alarm load:** 1st Stage - 2.75 Amps, shared between 2 circuits fused @ 3.15 Amps 2nd Stage Solenoid / Sounders & Beacon - 1 Amp
- **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
- **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 Preaction Status Outputs:** Switched positive 100 mA 24v DC
- **Remote Control Inputs:** Alarm Silence, Reset and Evacuate (class change)
- **Construction:** 16 gauge sheet steel, Epoxy powder coated semi-gloss Grey – White with hinged lockable door and Red screen printed lettering
- **Cable Entry:** Top entry with 20 mm diameter knock-outs
- **Standby Battery Space:** Will accept up to 2 off 7Amp/hr & 2 x 2.1 Amp/hr SLA Batteries

Wiring Schematic

Figure 1

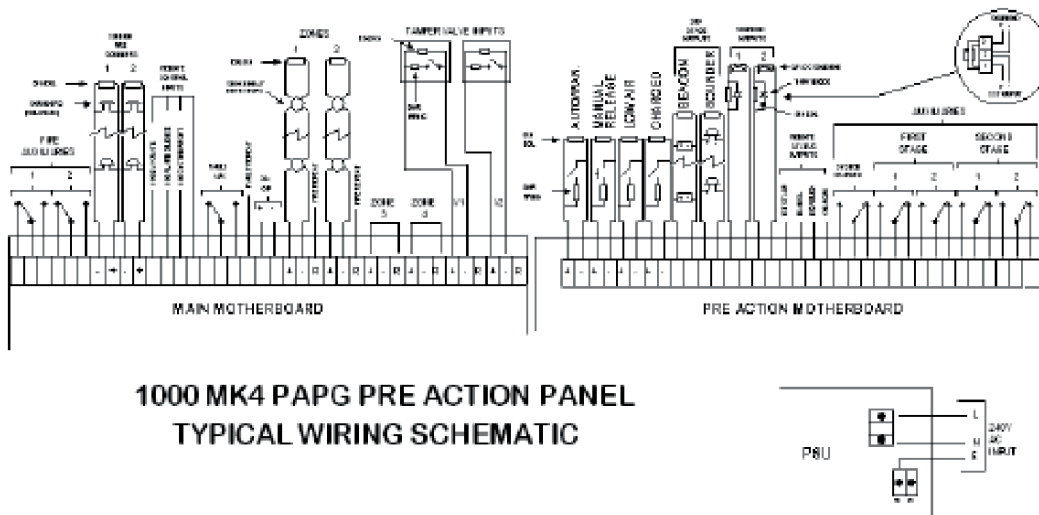


Table A

Zone/Gas Section	Width	Height	Depth	Enclosure Ref	Weight	Part Number
4 Zones/Preaction	500mm	400mm	150mm	01	11.0kg	7U99001761