GENERAL INSTALLATION DETAILS – PASRP-1A – PRE-ACTION SPRINKLER RELEASE PANEL

* The Controls Enable Key switch must be in the ON for the push switches to be operational

* The panel Mode settings should be selected before commissioning – See Typical wiring schematic for Mode setting & locations

IMPORTANT INSTALLATION NOTES

Ensure the panel is protected via a Breaker protected circuit either locally or at the distribution board and of sufficient current to power the system. The enclosure is suitable for use in environmental conditions up to IP42

INSTALLATION

The unit is wall mounted with a lockable hinged front door. Connection for the Front Fascia to the motherboards are via pluggable ribbon cables. The front door can be removed for installation by removing the screws fixing the hinged door to the back box.

FIXING OF ENCLOSURE

The back box is hinged to the front door on the lefthand side. The top of the box has 20mm diameter knockouts. The unit is fixed to the wall via 4 off dished fixing holes located in the corners. The mains supply entry is preferred to be located at the last knockout on the righthand side. POWER SUPPLY CONNECTIONS

The internal power supply requires the following connections-

1) 230v AC supply to the power supply mains terminals: 2) 24v DC standby SLA Battery: 3) 24v DC Emergency SLA Battery

MONITORED INPUT CONNECTIONS

Each monitored input has two Terminals to which the monitored circuit is connected. The 0v input terminal is common to all inputs.

MONITORED OUTPUT CONNECTIONS

Each monitored output has two Terminals to which the monitored circuit is connected. When any output operates the output voltage will reverse polarity therefore the Devices connected should be suitably polarised.

AUXILIARY OUTPUTS

Auxiliary relays outputs are provided for the Various signals being monitored (see Wiring Schematic) and are located on the both the Main and Pre-Action Motherboards.

COMMON FAULT AUXILIARY

One set of Fault contacts (either N/C or N/O depending upon Jumper setting) are provided and are located on the Main motherboard. These contacts will operate on any fault condition including a supply fault. The contact is failsafe (the fault relay is normally energised when the panel has no faults) and the Auxiliary contact notation shown is for the relay in its normal mode.

COMMISSIONING - IMPORTANT NOTE – CABLES SHOULD BE MEGGERED BEFORE ANY CONNECTIONS ARE MADE SUPPLY CONNECTIONS

- 1.1) Ensure all the EOL resistors are connected (no input or output cables connected)
- 1.2) With the Control Panel fixed in its location and all internal/fascia cables reconnected, connect the 230v AC Supply to the power supply mains terminals. Ensure that the other cables are not yet connected. Do not touch the printed circuit boards inside the panel.
- 1.3) Switch on the mains supply and check the following: the Facia Fault LED is illuminated, the Internal buzzer pulse sounds, and the Internal Supply Fault LED is illuminated. The Standby & Emergency Battery Fault LEDs will be illuminated. Press the "Fault Buzzer Silence" switch – the buzzer will silence.
- 1.4) Connect both the 24v DC Standby & Emergency batteries and check the following: the Facia Supply Healthy LED is illuminated, the Facia Fault LED is extinguished, Internal Supply Fault LEDs are extinguished, the internal buzzer stops. Under normal condition the Green Fault Relay LED will now be illuminated
- Switch off the 230v Supply and check the following: the Facia Fault LED is illuminated, the Internal buzzer pulse sounds, and the Internal 1.5) Supply LED fault is ON. The Power Supply Charger Fault LED will be illuminated. Re-connect the 230v AC supply

MONITORED ALARM & PRE-ACTION INPUT CONNECTIONS

- 2.1) Disconnect Zone 1 EOL Zone 1 Facia Fault LED will illuminate, the internal Z1 fault LED is illuminated and the Internal buzzer pulse sounds The Internal Green Fault relay LED will extinguish. Reconnect EOL, the control panel will return to is Normal mode
- 2.2) Short between Zone1 Input terminals and check the following Zone 1 Facia Fault LED is illuminated, Internal Z1 fault LED flashing and the Internal buzzer pulse sounds. The internal Green Fault relay LED will extinguish. Remove the Short between Zone 1 terminals. The control panel will return to its normal mode
- 2.3) Repeat 2.1) & 2.2) for all monitored Alarm inputs (Z1 to Z4 & Valves)
- 2.4) Connect the Devices to Zone 1. Operate a device (Alarm condition) and check the following Zone 1 Facia Alarm LEDs are illuminated, the internal Alarm Buzzer sounds, the appropriate Common Relay LED is illuminated. The internal Sounder Relay LED is illuminated.
- 2.5) Depress the "Alarm Silence" switch, the internal buzzer will now pulse. The Sounder relay LED will extinguish. Depress the System Reset button (Alarm condition has been removed) - The control panel will return to Normal Mode
- 2.6) Repeat 2.1) to 2.4) for all other Alarm inputs used. For Valve signals the Green LED will extinguish and the Tamper LED will illuminate and The Internal Fault buzzer will pulse & the Fault relay Green LED will extinguish
- 2.7) Repeat 2.1) to 2.5) for all Pre-Action Status inputs and check for correct operation

MONITORED ALARM SOUNDER/SOLENOID OUTPUTS

- 3.1) Disconnected the monitoring resistor Check that appropriate Facia Fault LED illuminates, Internal buzzer pulse sounds and the appropriate Fault LED Illuminates. The Green Fault Relay LED is extinguished. Reconnect monitoring resistor; panel will return to normal mode
- 3.2) Short Circuit the monitoring resistor Check that Facia Fault LED illuminates, Internal buzzer pulse sounds and the appropriate Fault LED Flashes and the Green Fault Relay LED is extinguished. Reconnect monitoring resistor; panel will return to normal mode 3.3) Connect the Sounder/Solenoid Devices and check for correct operation

AUXILIARY CONNECTIONS

- 4.1) Connect all External auxiliary outputs and check for correct operation
- 4.2) To Isolate external auxiliary outputs during routine testing Press "Auxiliary Isolate" switch. Auxiliary Isolated LED will illuminate and internal Buzzer will pulse. To return Auxiliary relay operation to Normal depress Auxiliary Isolate Switch again for about 3 seconds

LAMP TEST

To test all facia LED's and the internal buzzer, Depress the Lamp Test button, all external LED's will illuminate and the Internal the buzzer will sound. Release the button - the panel will return to its normal mode

PRE-ACTION MODE KEYSWITCH

- 5.1) With the Key switch in the Auto Mode the Pre-Action Release sequence will be operated by both Automatic Detection and by operation of either the Panel or remote Manual Release switches
- With the Key switch in the Manual only mode the Pre-Action Release sequence will operate only by the operation of either the Panel or remote 5.2) Manual Release switches
- With the Key switch in the Disabled mode the Solenoid Outputs will be inhibited. Other functions will as normal 5.3) When in the Disabled mode an internal buzzer will pulse sound and CANNOT be silenced

MANUAL RELEASE

To operate - Lift flap and depress Switch. The switch LED will be illuminated and the panel will enter into 2nd stage release sequence

To cancel - depress Switch - Switch LED will extinguish and the panel will return to its normal condition

