

Prescient^{II} Gas Extinguishant Control Panel User Instructions

NOTE: Rotate the ACCESS CONTROLS key-switch to position 1 in order to operate USER CONTROLS.

Fire - General

The RED zonal fire LEDs will pulse, the alarms will sound and the internal buzzer will operate.

Locate the source of the fire (an LED will be visible on the detector which has been activated).

To silence the alarms, press **SILENCE ALARMS**. The alarms will silence and the red fire LEDs will change to a steady illumination.

When the fire has been extinguished, press **RESET SYSTEM**. Should the system have activated for no apparent reason, please note which detector has been activated before pressing the **RESET SYSTEM** button, then contact your service engineer.

If necessary, the alarms can be reactivated by pressing **EVACUATE**. To silence the alarms during an evacuate condition, press **EVACUATE** again.

Fire - Zones 1 or 2 - Automatic Mode

If a fire is detected on either zone 1 or zone 2, the relevant red zone LEDs will pulse, the alarms will sound and the First Stage LED will illuminate.

If a fire is detected on both zones 1 & 2, both zone LEDs will pulse, the alarms will sound and both the first stage and the second stage LEDs will illuminate. In addition:

- The Timer Held LED will pulse to show that the Extinguishant Release Timer is running.
- The Extinguishant Release Timer may be stopped manually by pressing the Timer Hold button. When the button is released the timer will reset and start running again.
- When the Timer ends the Timer Held LED will be extinguished and the Extinguishant will be released.

Fire - Zones 1 or 2 - Manual Mode

The system will behave as outlined for automatic mode with the exception that the second stage LED will not be illuminated and the extinguishant timer will not be initiated. In this case the Extinguishant can only be released by operation of manual release.

Automatic or Manual Mode - Manual Release

If a Manual Release switch is operated, the Manual Release LEDs will pulse, the alarms will sound, the First and Second stage LEDs will illuminate and the Timer Held LED will pulse to show that the Extinguishant Release Timer is running. The timer can be suspended as described above.

The extinguishant will be released after timer ends.

Fault Indication

The internal buzzer will pulse and the appropriate fault LED will pulse. Call your service engineer immediately. Press SILENCE FAULT to silence the buzzer.



WARNING: This equipment contains dangerous voltages. To prevent electric shock, do not open the panel door. No user-serviceable parts inside - for servicing, contact suitably qualified personnel.

Zone Isolation

To isolate a zone, press the appropriate DISABLE ZONE button. The fault buzzer will sound and the appropriate ZONE FAULT LED will illuminate in a steady condition.

Press the appropriate DISABLE ZONE button again to de-isolate the zone.

Relay Isolate

This function should be used when performing an alarm or routine test. To isolate the relay, press the DISABLE RELAY button. The fault buzzer will sound and the SYSTEM DISABLED LED will illuminate. Press the DISABLE RELAY button again to de-isolate.

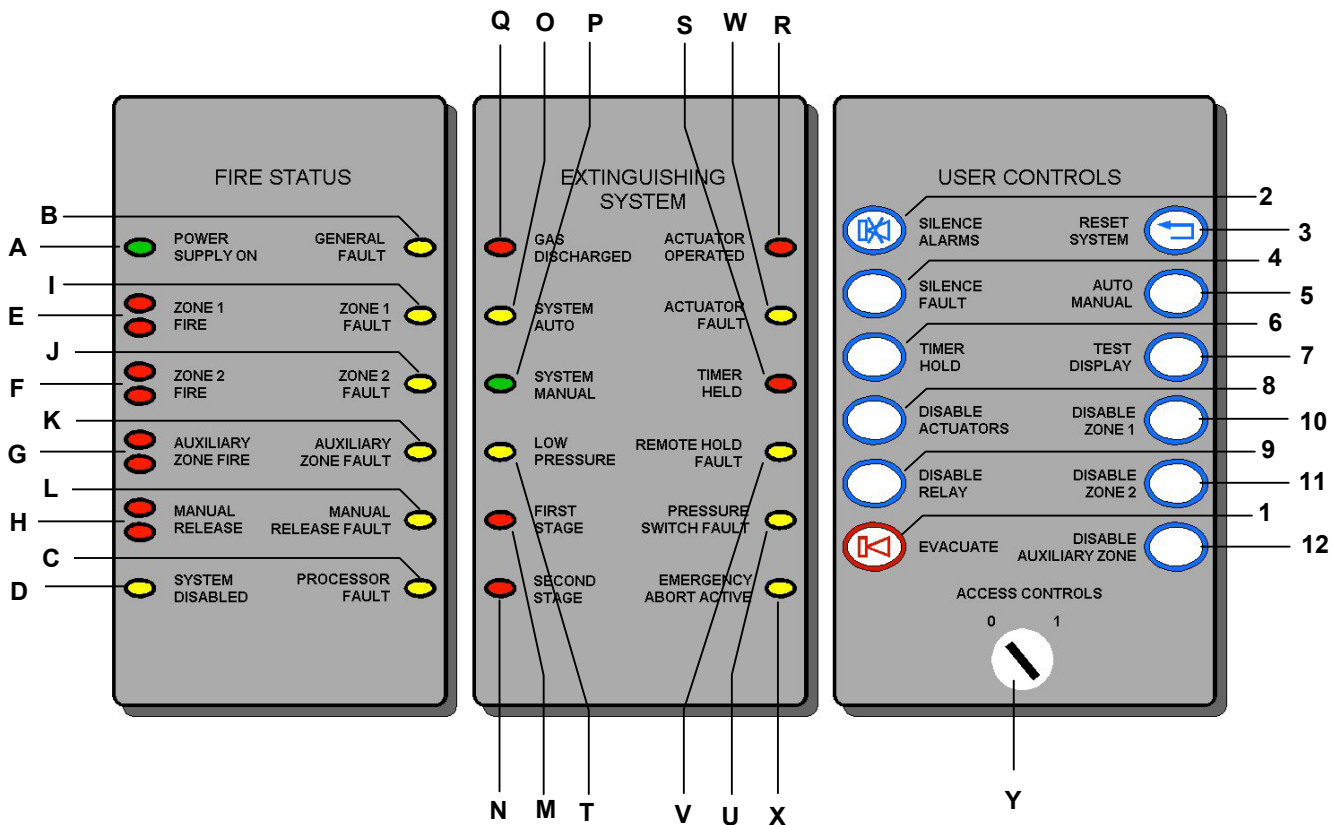
Test Display

The TEST DISPLAY button should be operated every week as part of the system test routine for checking correct operation of the panel buzzer and all LEDs. Press and hold to test the LEDs.

Test Routine

This should be carried out in accordance with BS5839 Part 1. Refer to Fire Alarm System Logbook.

Display Board Visual Indications & User Controls



Display Board Visual Indications

- A Power Supply On** - This is a green LED. It is normally illuminated to indicate that the power supply to the panel is present.
- B General Fault** - This is an amber LED. It is normally OFF. If a fault condition exists for which a separate LED is not provided on the display board, then the general fault LED pulses.
- C Processor Fault** - This is an amber LED. It is normally OFF. It is controlled from two circuits:
 - (i) If the microprocessor fails and is restarted by the watchdog circuit, then the microprocessor illuminates the LED until the **RESET SYSTEM** button is pressed.
 - (ii) If the microprocessor fails and cannot be restarted by the watchdog circuit, then the watchdog circuit illuminates the LED. This indication cannot be cleared unless the microprocessor restarts.
- D System Disabled** - This is an amber LED. It is normally OFF. This LED pulses if any circuits are disabled on the panel.
- E Zone 1 Fire** - This consists of two red LEDs. The LEDs are normally OFF. A fire condition on Zone 1 pulses the LEDs until the **Silence Alarms** function is activated. The LEDs are then steady until **System Reset**.
- F Zone 2 Fire** - This consists of two red LEDs. The LEDs are normally OFF. A fire condition on Zone 2 pulses the LEDs until the **Silence Alarms** function is activated. The LEDs are then steady until **System Reset**.
- G Auxiliary Zone Fire** - This consists of two red LEDs. The LEDs are normally OFF. A fire condition on the Auxiliary Zone pulses the LEDs until the **Silence Alarms** function is activated. The LEDs are then steady until **System Reset**.

- H Manual Release** - This consists of two red LEDs. The LEDs are normally OFF. An active condition on the Manual Release Zone pulses the LEDs until the **Silence Alarms** function is activated. The LEDs are then steady until **System Reset**.
- I Zone 1 Fault** - This is an amber LED. It is normally OFF. The LED pulses if there is a fault present on Zone 1. The LED is steady if Zone 1 is disabled.
- J Zone 2 Fault** - This is an amber LED. It is normally OFF. The LED pulses if there is a fault present on Zone 2. The LED is steady if Zone 2 is disabled.
- K Auxiliary Zone Fault** - This is an amber LED. It is normally OFF. The LED pulses if there is a fault present on the Auxiliary Zone. The LED is steady if the Auxiliary Zone is disabled.
- L Manual Release Fault** - This is an amber LED. It is normally OFF. The LED pulses if there is a fault present on the Manual Release Zone.
- M First Stage** - This is a red LED. It is normally OFF. If a First Stage alarm occurs the LED illuminates steady until System Reset.
- N Second Stage** - This is a red LED. It is normally OFF. If a Second Stage alarm occurs the LED illuminates steady until System Reset.
- O System Auto** - This is an amber LED and is illuminated if the panel is set to activate the actuator circuits automatically.
- P System Manual** - This is a green LED and is illuminated if the actuators can only be operated manually. This LED pulses if the **Lock Off** input is active.
- Note: The System Auto and System Manual LEDs are mutually exclusive and one or other will always be illuminated (or pulsing).**
- Q Gas Discharged** - This is a red LED. It is normally OFF. It is illuminated when the extinguishant is released. This is usually detected via the Pressure Switch input but may be operated as soon as the actuator circuits are activated if the panel is configured for NO PRESSURE SWITCH. The LED will be cleared on System Reset.
- R Actuator Operated** - This is a red LED. It is normally OFF. It is illuminated when the actuator circuits are activated. The LED will be cleared on System Reset.
- S Timer Held** - This is an amber LED. It is normally OFF. It pulses when the extinguishant release timer is running and is ON when the timer is held. It switches OFF after the timer has ended, or on System Reset.
- T Low Pressure** - This is an amber LED. It is normally OFF. It is illuminated when the Low Pressure input is active and clears only when the input is cleared.
- U Pressure Switch Fault** - This is an amber LED. It is normally OFF. It pulses if there is a cable fault on the Pressure Switch input. It remains pulsing until the fault is cleared.
- V Remote Hold Fault** - This is an amber LED. It is normally OFF. It pulses if there is a cable fault on the Remote Timer Hold input. It remains pulsing until the fault is cleared.
- W Actuator Fault** - This is an amber LED. It is normally OFF. It pulses if an open circuit or short circuit fault is detected on either of the actuator circuits. It remains pulsing until the fault is cleared.
- X Emergency Abort Active** - This is an amber LED and is normally OFF. It is illuminated steady if the Abort Input is active during an alarm condition. It pulses if the Abort Input is active in a non-alarm condition.

Display Board User Controls

- 1 Evacuate** - This button operates the alarm circuits continuously when operated once. It must be operated again to silence the alarm circuits. If it is operated during a fire condition then **Silence Alarms** must be operated to silence the alarm circuits.
- 2 Silence Alarms** - This button allows the alarm circuits to be silenced during a fire condition. The buzzer changes from continuous to a rapid pulse. A new fire or evacuate condition clears the Alarms Silenced mode, reactivating the alarm circuits and returning the buzzer to continuous.
- 3 Reset System** - This button initiates a **System Reset** if the panel is currently in Alarms Silenced mode. During System Reset, all outputs and indications are cleared, the devices on the zones are reset (i.e. the zone supply is disconnected for 1 second) and the Auxiliary Reset relay is operated for 7.5 seconds.

- 4 Silence Fault** - This button silences the buzzer during a fault indication but only if that fault is capable of being silenced. Faults which cannot be silenced are:
- (i) Processor Fault when controlled by the watchdog circuit
 - (ii) Zone Disabled
 - (iii) Relay Disabled
 - (iv) Actuator Circuits Disabled
 - (v) One-Man-Test Mode Active
 - (vi) Display Fault
- 5 Auto/Manual** - This button toggles the panel status between Automatic and Manual discharge mode, unless the Remote Lock-Off input is active, in which case the panel remains in manual mode and the button has no effect.
- 6 Timer Hold** - This input is only effective when the discharge timer is running. When pressed, the timer is reset to the start value and remains inactive until the button is released, at which point the timer then becomes active again.
- 7 Test Display** - This button illuminates all the LEDs on the panel display and the main control board except for MAINS FAULT, INTERNAL FAULT and BATT CH FAULT. The buzzer also sounds. The Test Display mode is active until the button is released.
- 8 Disable Actuators** - This button disables the actuator circuits and prevents them from being operated or monitored for faults. The actuator circuits can be enabled by operating the button again.
- 9 Disable Relay** - This button disables all of the auxiliary relays and prevents them from being operated. The relays can be enabled by operating the button again. Note: The Auxiliary Fault relay is still operated.
- 10 Disable Zone 1** - This button disables fault and fire monitoring on zone 1. The zone can be enabled by operating the button again.
- 11 Disable Zone 2** - This button disables fault and fire monitoring on zone 2. The zone can be enabled by operating the button again.
- 12 Disable Auxiliary Zone** - This button disables fault and fire monitoring on the auxiliary zone. The zone can be enabled by operating the button again.

Note: All zone disable/enable operations result in the zone power supply being disconnected for 10 seconds.