

Extinguishing Control Panel



CE

Key Features

- ◆ Comprehensive facilities for gaseous extinguishing systems
- ◆ Designed to BS7273 part 1
- ◆ Complies with EMC and LVD directives
- ◆ 1 minute actuator cut off option
- ◆ Monitored actuator/solenoid release
- ◆ Zone isolate feature
- ◆ Common fire, fault, relay signalling facilities
- ◆ 1st & 2nd stage relay facilities
- ◆ Gas discharged & reset relay facilities
- ◆ Intrinsically safe barrier settings
- ◆ Metron or solenoid compatible
- ◆ Single or double knock operation
- ◆ Pre-discharge delay adjustable from 0 to 8.5 minutes
- ◆ Discharged indication with or without pressure switch
- ◆ Option for inhibit silence alarms when gas imminent
- ◆ Option for rapid buzzer pulse when gas imminent
- ◆ Semi-flush bezel and fully-flush cabinet options available
- ◆ Membrane fascia with tactile switches
- ◆ Easily removable chassis

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Panel Overview

General

The **Excel series** gaseous extinguishant control panel is powerful yet user-friendly and is designed and manufactured to a high standard. This latest generation takes advantage of the very latest technological advancements both in terms of design and manufacturing techniques to meet the exacting requirements of system design.

The panel has extensive configuration options but is easy to install, programme and operate. The removable chassis enables the engineer to “first fix” an empty cabinet and then fit the chassis at the commissioning stage.

This is supported by comprehensive documentation on commissioning, operating, maintenance and fault finding. In addition there is a comprehensive range of compatible accessories available to meet most customer requirements.

Operation

Three fully-monitored detection zones are provided. Zones 1 and 2 normally provide first stage and second stage fire conditions to allow extinguishant discharge (coincidence detection zones). Zone 3 is an auxiliary zone for detection only purposes. Zone 4 is used as a manual release zone.

Facilities

Two fully-monitored alarm circuits are provided, each rated at 1A and may have various configuration options via the engineers' DIL switch settings.

Two fully-monitored actuator/solenoid circuits, each rated at 1A, operate simultaneously upon “extinguishant release”.

The panel provides 28V DC output at 250mA to operate interior/exterior status indicator units for auto, manual and discharged. Additional outputs are also provided for timer held and emergency abort operated each rated at 100mA.

Eight normally-open inputs provide for remote evacuate, silence alarms, system reset, lock-off input, low pressure, gas discharged pressure switch input, timer hold, and emergency abort.

Clean contact relays are provided for first stage signalling, second stage signalling, system reset, common fire, common fault and system discharged.

Configuration

The use of DIL switches on the internal motherboard enables the engineer to easily configure the extensive options available and view the panel's configuration upon any return visit. The DIL switch functions are listed in the technical specification of this leaflet.

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Technical Specifications

Maximum power supply output	3.0A, 28V DC
Alarm current (mains off)	200mA + ancillary equipment current + alarm circuit current + solenoid circuit current
Mains failed current	83mA + ancillary equipment current
Integral charger output, quiescent	3.0A, minus mains failed current
Integral charger output, alarm	3.0A, minus alarm current
Remote inputs	Silence alarms, reset, evacuate, lock-off switch, low pressure, pressure switch, timer hold, emergency abort
Repeater outputs	Zonal fire, manual release zone activated, panel fault, evacuate operated
Status indicator outputs	System auto, system manual, discharged (rated at 250mA each), timer held, emergency abort (rated at 100mA each) (Total not to exceed 500mA)
Clean contact relay contacts for	First stage operated, second stage operated, auxiliary reset, auxiliary fire, auxiliary fault, system discharged (All 30VDC 1A rated)
Engineers DIL switch settings	Zone 1 double knock, zone 2 double knock, zones intrinsically safe, no pressure switch, actuator short circuit disable, 2 x delay, alarm 1 first stage alarm 2 second stage, alarm first stage pulsed/continuous, alarms second stage pulsed continuous, manual release gives instant discharge, Inhibit silence alarm during gas imminent, Buzzer rapid pulse ad end of delay, Evacuate operates Aux. Fire relay, Latching faults, Discharge timer set, Actuator 1 minute cut off, earth fault monitoring
Internal fault indications	Power fault, display fault, earth fault, alarm fault, lock off fault, abort input fault, low pressure fault, mains fault, internal fault, battery charger fault
Maximum auxiliary 28V DC supply	1.0A
Alarm circuit rating	2 at 1A, 28V DC each (fused)
Actuator/solenoid circuit rating	2 at 1A, 28V DC each (fused)
Internal battery size	2 x 7AH S.L.A.
Panel dimensions	370mm high x 325mm wide x 130mm deep
Weight (excluding batteries)	4.85kg
Maximum detectors per zone	20
Maximum call points per zone	No limit
Part Number	2500/930