

In areas where items of great value may be stored or equipment which if lost in a fire would seriously effect an organisation's future, automatic gaseous extinguishing systems are often installed. Discharging either Carbon Dioxide or a proprietary extinguishant such as FM 200 both automatic and manual control, together with indication of the systems status is most important, especially where the protected area is normally occupied.

Used in conjunction with conventional ZC fire alarm panels, the ZC3-GCU1 gas control unit provides both manual and automatic means of releasing extinguishant. The ZC3-GU1 is interfaced with two detection zones of a conventional fire alarm panel which are utilised to provide double knock (coincidence) detection throughout the gas protected area.

Key switches are provided for automatic or manual discharge, system lock off and reset. A callpoint situated on the front of the unit can be operated to manually release the extinguishant. The unit also features system status indication, displaying the current mode of the extinguishing system automatic, manual or gas discharged. Indications are also provided for reset and for lock off when power to the discharge mechanism is switched off for maintenance.

Terminals are provided to enable the status of the system automatic, manual, locked off or discharged, to be repeated remotely. Outputs are also provided for the connection of actuator circuits for either Metron type detonators or solenoid release valves.

Alarm sounders are operated from the main ZC fire alarm panel on receipt of a first stage signal from the double knock detectors. On receipt of a second stage signal from the fire alarm panel, the ZC3-GCU1 will sound a pre discharge alarm and when in the automatic mode, after a 30 second time delay, (to allow evacuation of the discharge area), will release the extinguishant.

A sparate control unit is required for each gas discharge system. Any number of control units can be connected to a ZC fire control panel, provided two detector zones are available for each extinguishing system. For example 4 control systems would require an 8 zone fire alarm panel.

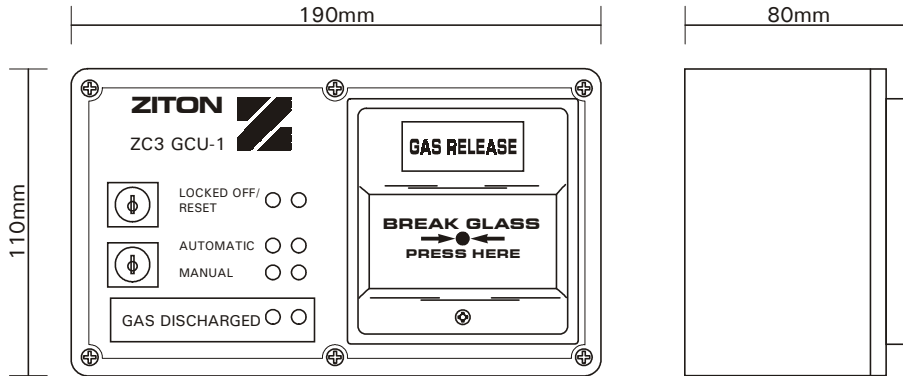


ZC3-GCU1

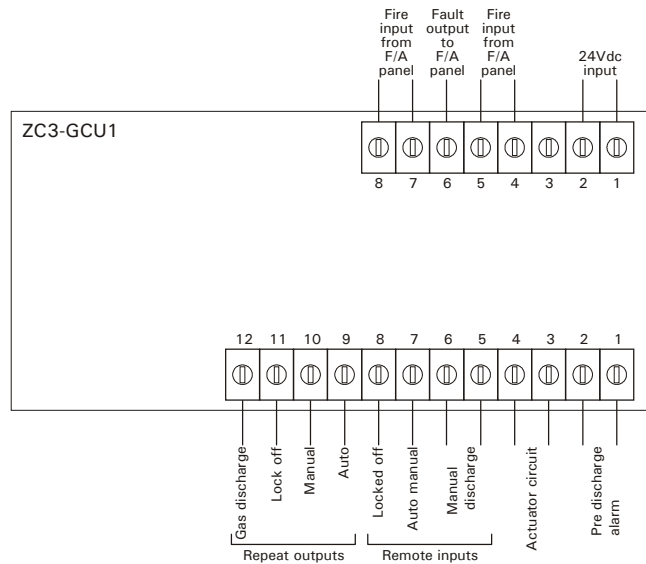
Gas Control Unit

- Provides automatic and manual control
- System status indication
- Compatible with ZC conventional fire panels
- Connections for remote and repeat units

Dimensions



Wiring Schematic



Specifications

Model No.	Part No.	Description
ZC3-GCU1	06810	Extinguishing control unit
Compatibility	ZC conventional panels	Current (fault) 200mA (excl external devices)
Mounting	Surface mounting	Sounder circuit 0.5 Amps - 24 volts DC
Monitoring:	Actuator, pre discharge sounder and remote manual release circuits monitored for open and short circuit fault	Environmental:
Indication	Gas discharge dual red LED	Application Indoors
	System automatic dual amber LED	EN60529 rating IP42
	System manual dual green LED	Temp range -20°C to +70°C
	System off/reset dual amber LED	Humidity range 20% to 95% RH (non condensing)
	System faults are displayed at fire alarm panel	Construction:
Operating voltage	24 volts DC	Material Steel front plate and back box
Current (quiescent)	80mA	Dimensions 190mm (W) x 110mm (H) x 80mm (D)
Current (alarm)	150mA (excl external devices)	Colour Grey
		Weight 460g

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