

Gas Release Panel – EN12094 Part 1, EN54-2 & 4

Features

- Functions as a standard three zone fire panel with additional circuitry for controlling the release of fire-suppressing gas into protected areas
- Unique 128 x 64 pixel graphical display facilitates straightforward system programming
- Includes a pull-down front-panel manual release button and two keyswitches for accessing the panel's functions and toggling between auto/manual mode
- Three conventional sounder circuits (two x 1st stage, one x 2nd stage)
- Powerful 3A EN54-4 compliant switch mode PSU
- Low quiescent current - less than 40mA on mains fail
- Wide range of monitored inputs and auxiliary outputs
- Abort and hold inputs allow the panel's release sequence to be cancelled or suspended at any time
- Time-stamped event log
- RS485 connections for up to eight flush or surface Remote Status Units with their own LCDs, manual release and mode (auto/manual) switches. Single gang Economy Status Units (without an LCD) are also available.
- Extensive range of commissioning and engineering functions
- Optional Relay Expansion boards and single gang abort and hold buttons

Applications

- Computer rooms
- Archive storage
- Museums
- Generator Rooms
- Chemical plants
- Telecommunication

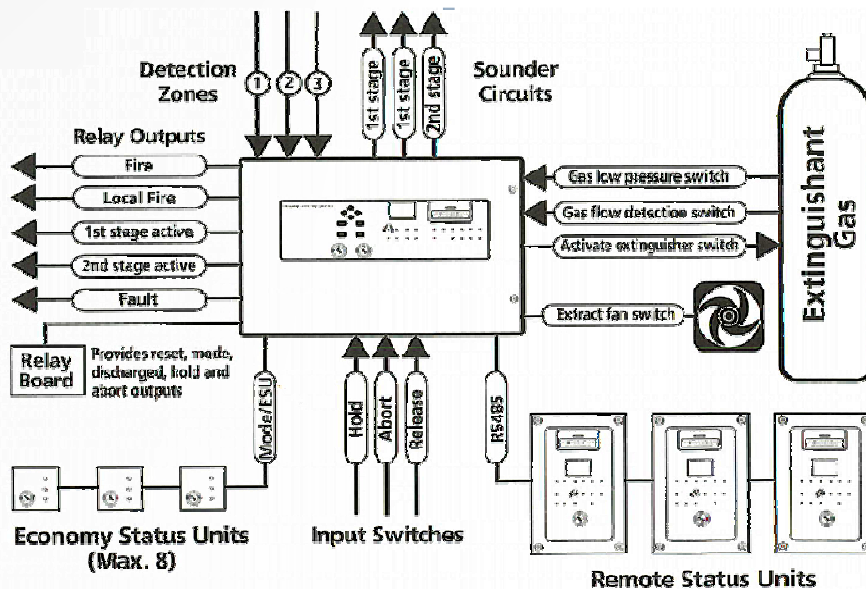


Gas Release Panel



Remote Status & Economy Status Units

Schematic



WORLD LEADER OF INNOVATIVE SOLUTIONS
IN FIRE DETECTION AND ALARM SYSTEMS



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Specifications

POWER SUPPLY	
Mains supply	230Vac, 50/60Hz @ 810mA max.
Internal power supply	24Vdc nominal
Power rating	1.5A cont., 3A peak
Battery type	2 x 12Vdc, 7Ahr VRLA type, connected in series.
Battery charge current	0.7A
Quiescent current drain on mains fail	I min.* = 40mA approx.
Mains supply/battery charger monitored for failure	YES
Batteries monitored for disconnection and failure	YES
Earth fault monitoring	YES
DETECTOR CIRCUITS	
Number of conventional detector circuits	3
Line monitored for open and short circuit faults	YES
Max. cable length per circuit	250m
Max. number of smoke/heat detectors per circuit	20
Max. combined no. of detectors and call points per circuit	32
Zone quiescent detector current per circuit	2mA max. @ 19-28V
End-of-line resistor value	6K8 ohm ± 5%, 0.25W
SOUNDER CIRCUITS	
Number of conventional sounder circuits	3 (two x 1st stage, one x 2nd stage)
Line monitored for open and short circuit faults	YES
Sounder output rating	19-28Vdc, fused @200mA per circuit
Max. sounder cable length per circuit	50m
Max. number of polarised sounders per circuit	10 @ 20mA each
End-of-line resistor value	6K8 ohm ± 5%, 0.25W
MONITORED INPUTS	
Number of monitored inputs	6 (Man. Release, Flow Switch, Low Press., Mode, Hold, Abort)
Thresholds	8k to 2k ohms (Normal); 1.8k to 200 ohms (Active); 150 to 0 ohms (Short-circuit)
End-of-line resistor value	6K8 ± 5%, 0.25W
AUXILIARY OUTPUTS	
Number of auxiliary outputs **	6 (Fire, Local Fire, Extract, 1st Stage, 2nd Stage, Fault)
Relay contact rating	30Vdc, 1A max.
REMOTE INPUTS	
Number of remote inputs	4 (SIL, AL, FLT, RST)
Auxiliary output	19-28V, 100mA electronic fuse
EXTINGUISHANT RELEASE OUTPUTS	
Extinguishant release output	19-28Vdc, rated at 1A for 5mins.
Extinguishant release time delay	Adjustable 0-60 seconds (1 second steps)
Extinguishant release duration	Adjustable 1-300 seconds (1 second steps)
Extinguishant release flooding time	Adjustable 60-1740 seconds (1 second steps)
Extinguishant output end-of-line	System Line Terminator (Item No. 2980-0005)
DIMENSIONS & WEIGHT	
Dimensions (mm)	Back box: 439(w) x 276(h) x 70(d) approx. (metal); Lid: 467(w) x 293(h) x 29(d) approx. (plastic)
Weight (without batteries)	4.2kg
OPERATING CONDITIONS	
The control panel enclosure has an IP30 rating and is designed for indoor use only. Temperature Range: -5 to +40°C. Maximum relative humidity: 95%.	
OPTIONAL OUTPUT EXPANSION RELAY BOARD - Item No. 2980-0004	
Number of volt-free relay outputs	5 (Reset, Mode Switch, Discharged, Hold, Abort)
OPTIONAL REMOTE STATUS UNIT (RSU) - Item No. 2980-0002 (surface) / 2980-0001 (flush)	
RSU connection	2-wire RS485 + 2-wire power (24V)
RSU power output	19-28Vdc, 200mA electronic fuse
Max. number of RSUs	8
Number of monitored inputs	3 (Abort, Hold, Mode)
Status Display Unit	128 x 64 pixel graphic LCD unit, two-colour backlight
Dimension of enclosures (mm)	Surface - 160(w) x 240(h) x 51(d) approx. (metal); Flush - 175(w) x 250(h) x 53(d) approx. (metal)
OPTIONAL ECONOMY STATUS UNIT (ESU) - Item No. 2980-0003	
ESU connection	2-wire power (24V) + 2-wire mode select
ESU power	100mA electronic fuse
Max. number of ESUs	8
Dimension of flush-mount enclosure	87mm(w) x 87mm(h) x 35mm(d) approx. (plastic)
OPTIONAL SYSTEM HOLD/OFF ABORT BUTTON - Item No. 2980-0006	
Dimension (mm)	93(w) x 93(h) x 78(d) approx. (plastic)
OPTIONAL SYSTEM LINE TERMINATOR - Item No. 2980-0005	
Dimension (mm)	55(w) x 55(h) x 22(d) approx.

