

Prescient III

Extinguishing Control Panel



Panel Overview

General

The Prescient III gaseous extinguishant control panel is powerful yet user-friendly and is designed and manufactured to a high standard. The panel features approval to BSEN 12094-1:2003, BSEN 54-2 and 4 and is designed to BS7273 part 1.

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

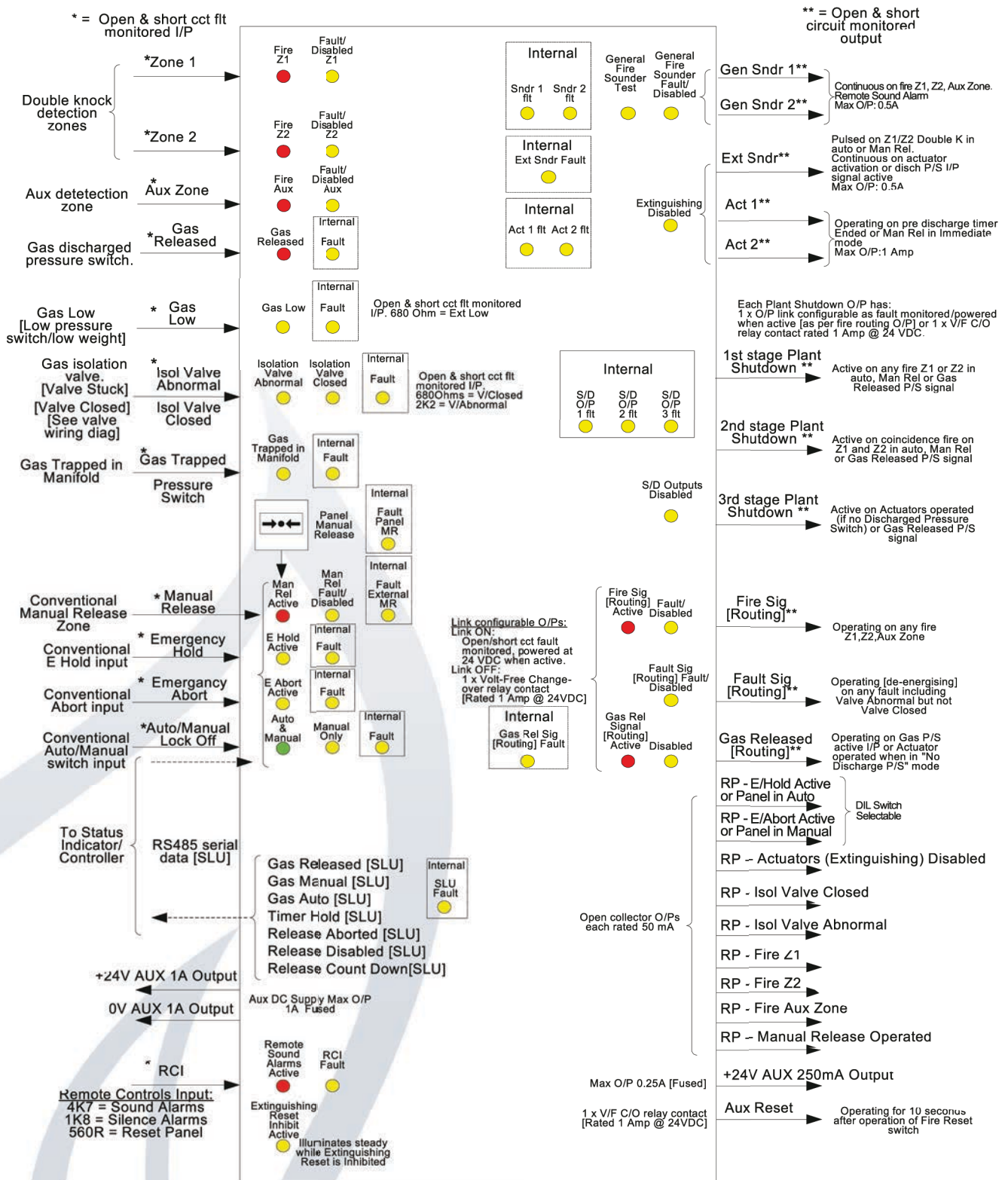
Three fully-monitored detection zones are provided. Zones 1 and 2 normally provide first stage and second stage fire conditions to allow extinguishant discharge (coincidence detection zones). Zone 3 is an auxiliary zone for detection only purposes. Zone 4 is used as a manual release zone.

Key Features

- Comprehensive facilities for gaseous extinguishing systems
- Approval to BSEN 12094-1:2003 additional options
- Approval to BSEN 54-2 and 4
- Designed to BS7273-1:2000
- Monitored inputs for gas discharged, gas low, isolation valve closed/abnormal, gas trapped in manifold
- Control inputs for auto/manual, gas hold, gas abort
- 1 minute actuator cut off option
- Monitored actuator/solenoid release
- Extensive disablement options
- Common fire, fault, relay / monitored output facilities
- 1st stage, 2nd stage, 3rd stage and gas discharged relay / monitored output facilities
- Reset relay facilities
- Intrinsically safe barrier settings
- Metron or solenoid compatible
- Single or double knock operation
- Pre-discharge delay adjustable from 0 to 60 seconds
- Discharged indication with or without pressure switch
- Inhibit silence alarms until gas discharged
- Latching or non latching fault indication option
- Option for rapid buzzer pulse when gas imminent
- Semi-flush bezel and fully-flush cabinet options available
- One man zone and sounder test
- Easily removable chassis

A new class of Fire Detection

Block Diagram



Status Indicators

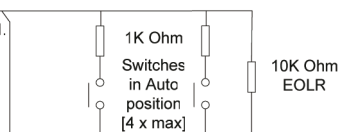
Fully Specified Status Control/Indicator [SLU 3]

- Release Aborted [Yellow]
- Release Held [Yellow]
- Discharged [Red]
- Automatic and Manual [Green]
- Manual Only [Yellow]
- Release Disabled [Yellow]
- SLU Fault [Yellow]
- Press to Abort Release [white]
- Press and hold to Hold Release [white]
- Manual Release [Yellow]
- Test Lamps
- / Automatic & Manual
- / Manual Only
- 8.8 Seconds until Discharge

RS485 data and 28/0V
DC to next SLU

Auto/manual selection I/P
from door lock.
[Alternative]

Open/short circuit fault monitored.
10K = Auto
250 Ohm to 1k = Manual
O/C or S/C = Manual + Fault



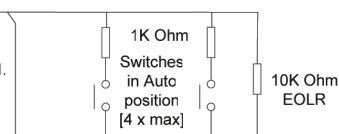
Basic Status Control/Indicator [SLU 2]

- Discharged [Red]
- Automatic and Manual [Green]
- Manual Only [Yellow]
- Release Disabled [Yellow]
- SLU Fault [Yellow]
- Manual Release [Yellow]
- Test Lamps
- / Automatic & Manual
- / Manual Only

RS485 data and 28/0V
DC to next SLU

Auto/manual selection I/P
from door lock.
[Alternative]

Open/short circuit fault monitored.
10K = Auto
250 Ohm to 1k = Manual
O/C or S/C = Manual + Fault



Status Lamp Unit [SLU 1]

- Discharged [Red]
- Automatic and Manual [Green]
- Manual Only [Yellow]
- Test Lamps
- Release Aborted [Yellow]
- Release Held [Yellow]
- Release Disabled [Yellow]
- SLU Fault [Yellow]

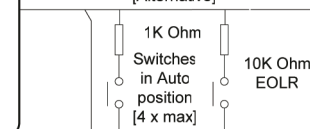
RS485 data and 28/0V
DC to next SLU

Weatherproof Basic Status Control/Indicator [SLU 4]

- Discharged [Red]
- Automatic and Manual [Green]
- Manual Only [Yellow]
- / Automatic & Manual
- / Manual Only
- Release Aborted [Yellow]
- Release Held [Yellow]
- Release Disabled [Yellow]
- SLU Fault [Yellow]
- Test Lamps

RS485 data and 28/0V
DC to next SLU

Auto/manual selection I/P from door lock.
[Alternative]



A new class of Fire Detection

Panel Overview

Facilities

Three fully-monitored alarm circuits are provided, each rated at 0.5A with various configuration options via the engineers' DIL switch settings. Two circuits are designed to provide audible warning of any fire condition and one circuit to provide individually distinct audible warnings of pre-discharge, discharged and emergency hold conditions.

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

An RS485 multi-drop circuit link supports up to 7 Status Controller/Indicators of either type [basic or fully functional] mixed on the communication path. Additional terminals and configuration options allow the engineer to configure the manual release, abort and hold switches to either data comms or hard wired inputs as required.

Normally-open inputs provide for remote evacuate, silence alarms, system reset, lock-off input, low pressure and gas discharged pressure switch input.

Outputs are provided for first stage signalling, second stage signalling, system discharged, common fire and common fault. These outputs may be configured as either VF C/O contacts or monitored 24V (50mA) outputs. A system reset VF relay is also provided.

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.

Part Numbers

508.033.751 Prescient III Gas Extinguishing Panel.

508.033.752 Status Lamp Unit (SLU1)
Indication Only.

508.033.753 Status Lamp Unit (SLU2)
Indication, Manual Release and Auto/
Manual Switch.

508.033.754 Status Lamp Unit (SLU3)
Indication, Manual Release, Abort,
Timer Hold and Auto/Manual Switch.

508.033.755 Status Lamp Unit (SLU4)
Indication and Auto/Manual
Switch - Weatherproof.