



# SIGMA XT

## Extinguishant Control Panel

### Features

- ▶ Any single zone or any combinations of zones can be configured to release
- ▶ Configurable first stage sounder delays
- ▶ Configurable detection delays
- ▶ Zero time delay upon manual release option
- ▶ Compatible with I.S. barriers
- ▶ Non-latching zone input option to receive signals from other systems such as aspirating equipment
- ▶ Countdown timer shows time remaining until release
- ▶ Supports up to seven, four-wire status indicators
- ▶ Configurable extinguishant delays up to 60 seconds in 5 second steps
- ▶ Configurable extinguishant duration up to 5 minutes in 5 second steps
- ▶ Supports up to seven, four wire status indicators
- ▶ Built in Extract Fan control
- ▶ Approved and certified to EN12094-1, EN54-2 and EN54-4
- ▶ UL and FM Approved version also available



### Description

The industry leading Sigma XT extinguishant releasing panel, installed extensively in thousands of premises globally, offers outstanding value and performance for all small to medium fixed firefighting installations.

With three detection zones as standard, extinguishant release can be configured to activate from any combination of detection zone inputs.

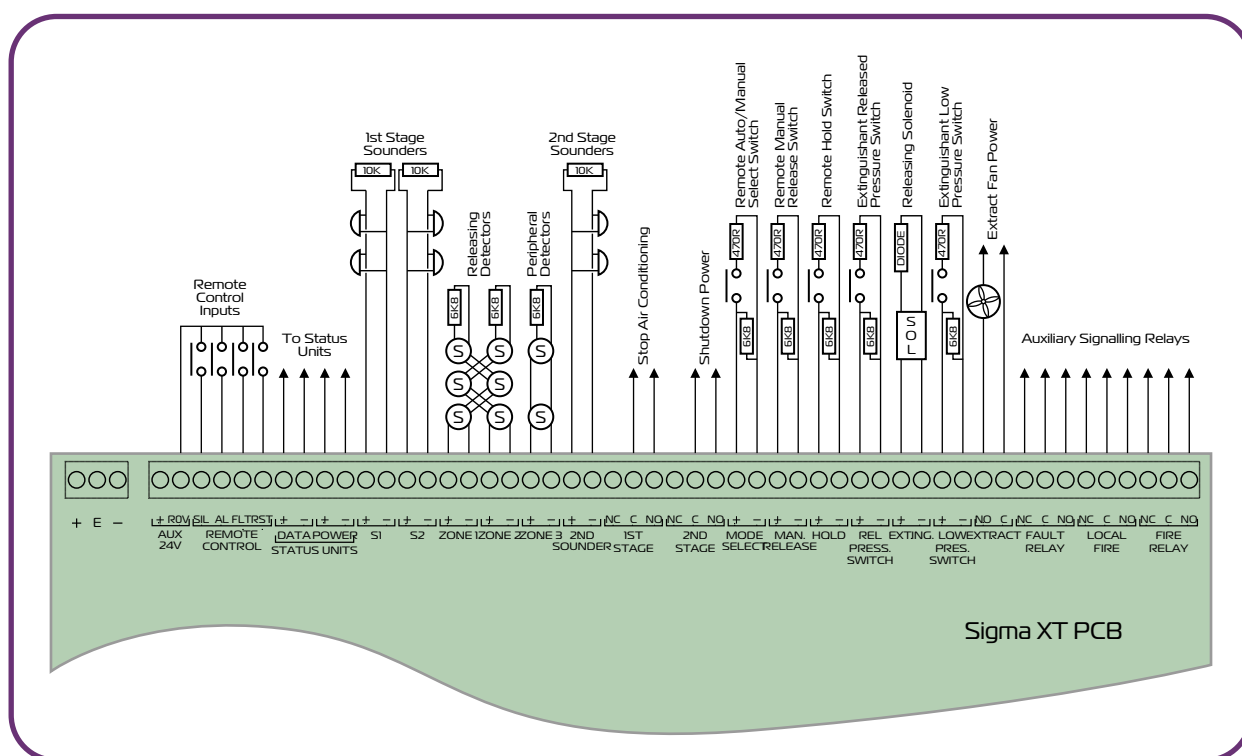
Sigma XT panels are both robust and easy to install having all the electronics mounted on a single, easily removable, steel plate.

| Programmable functions                |                                      |
|---------------------------------------|--------------------------------------|
| Access Level 2                        | Access Level 3                       |
| Test Zones 1 to 3                     | Sounder Delay                        |
| Disable Zones 1 to 3                  | Coincidence Detection                |
| Disable 1st Stage Alarms              | Disable Panel Features               |
| Disable Pre-activated 1st Stage Relay | Zone Alarm Delays (Detectors)        |
| Disable Pre-activated 2nd Stage Relay | Zone Alarm Delay (Call Points)       |
| Disable Extract Fan Output            | Configure Zone for I.S Barrier Use   |
| Disable Manual Release Input          | Zone Short Circuit Alarm             |
| Disable Extinguishant Sub System      | Zone Non Latching                    |
| Activate Extract Fan Output           | Zone Inputs Delay                    |
| Activate Alarm Delays                 | Extinguishant Release Time Delay     |
|                                       | Extinguishant Release Duration Timer |
|                                       | Extinguishant Reset Delay Timer      |

| Specification                            |                                                                 |
|------------------------------------------|-----------------------------------------------------------------|
| Construction                             | 1.2mm mild sheet steel                                          |
| IP Rating                                | IP30                                                            |
| Finish                                   | Epoxy powder coated                                             |
| Colour - lid & box                       | BS 00 A 05 grey - fine texture                                  |
| Colour - control panel & labels          | RAL 7047 light grey - satin                                     |
| Weight                                   | 6kg                                                             |
| Mains supply                             | 230V AC +10%/-15% (100 Watts maximum)                           |
| Mains supply fuse                        | 1.6 Amp (F1.6A L250V)                                           |
| Power supply rating                      | 3 Amps total including battery charge 28V +/- 2V                |
| Maximum ripple current                   | 450 millivolts                                                  |
| Battery type (Yuasa NP)                  | Two 12 Volt 7Ah sealed lead acid in series                      |
| Battery charge voltage                   | 27.6VDC nominal (temperature compensated)                       |
| Battery charge current                   | 0.7A maximum                                                    |
| Battery fuse                             | 20mm, 3.15A glass                                               |
| Maximum current draw from batteries      | 3 Amps                                                          |
| Quiescent current of panel in mains fail | 0.095A                                                          |
| R0V output                               | Fused at 500mA with electronic fuse                             |
| Sounder outputs                          | 24V Fused at 500mA with electronic fuse                         |
| Fault relay contact rating               | 30VDC 1A Amp maximum                                            |
| Fire relay contact rating                | 30VDC 1A Amp maximum                                            |
| Local fire relay contact rating          | 30VDC 1A Amp maximum                                            |
| First stage contact rating               | 30VDC 1A Amp maximum                                            |
| Second stage contact rating              | 30VDC 1A Amp maximum                                            |
| Extract contact rating                   | 30VDC 1A Amp maximum                                            |
| Zone quiescent current                   | 2mA maximum                                                     |
| Terminal capacity                        | 0.5mm <sup>2</sup> to 2.5mm <sup>2</sup> solid or stranded wire |
| Number of detectors per zone             | Dependent on type (maximum 32)                                  |
| Number of sounders per circuit           | Dependent on type (max. 0.5A per sounder circuit)               |
| Detection circuit end of line            | 6K8 5% ½ Watt resistor                                          |
| Monitored input end of line              | 6K8 5% ½ Watt resistor                                          |
| Sounder circuit end of line              | 10K 5% ¼ Watt resistor                                          |
| Extinguishant output EOL                 | 1N4004 Diode                                                    |
| No. of detection circuits                | 3                                                               |
| No. of sounder circuits                  | 2 x 1st Stage, 1 x 2nd Stage                                    |
| Extinguishant release output             | Fused at 1 Amp                                                  |
| Extinguishant release delay              | Adjustable 0 to 60 seconds (in 5 second steps)                  |
| Extinguishant release duration           | Adjustable 60 to 300 seconds (in 5 second steps)                |
| SIL, AL, FLT, RST inputs                 | Switched -ve, max resistance 100 Ohms                           |

## Specification

|                                          |                                     |
|------------------------------------------|-------------------------------------|
| Detector alarm threshold                 | 999 ohms to 400 ohms                |
| Call point alarm threshold               | 399 ohms to 100 ohms                |
| Short circuit threshold                  | 99 ohms to 0 ohms                   |
| Head removal condition                   | 15.5 to 17.5 volts                  |
| Cabling                                  | FP200 or equivalent                 |
| Monitored inputs normal threshold        | 8K ohms to 1K ohm                   |
| Monitored inputs alarm threshold         | 999 ohms to 100 ohms                |
| Monitored inputs Short circuit threshold | 99 ohms to 0 ohms                   |
| Status unit/Ancillary board connection   | Two wire RS485 connection           |
| Status unit power output                 | Fused at 500mA with electronic fuse |



## Panels

| Product Code | Description            | Size (mm)      |
|--------------|------------------------|----------------|
| K11031M2     | Surface mounting panel | 385 x 310 x 90 |