

Sigma A-XT

General

Designed and manufactured to the highest standards in a quality controlled environment and with UL and FM approvals, the Sigma A-XT releasing panel offers outstanding value and performance for all small to medium fixed firefighting installations.

With three initiation circuits as standard, release can be configured to activate from any combination of detection zone inputs to allow (among other combinations) any two from three type activations such as would be required for detection in ceiling void, room and floor void applications.

The extensive configuration options of the Sigma A-XT allow the functionality of the system to be extensively modified.



The panel contains a large LED display to enable easy configuration and control which also displays the time remaining until release for added user safety. The countdown timer is duplicated on up to seven remote status units to provide local indication of the status. With all of the electronics mounted on a single, easily removable, steel plate Sigma A-XT panels are both robust and easy to install. Sigma A-XT is supplied in an enclosure that matches the design and colour of the Elite RS range and is available in standard red or optional gray.

Features

- UL864 and FM listed.
- Three initiation circuits as standard.
- Any single zone or any combinations of zones can be configured to release.
- Configurable first stage NAC delays.
- Compatible with I.S. barriers.
- Configurable extinguishant release time delays up to 60 seconds in 5 second steps.
- Configurable extinguishant release duration up to 5 minutes in 5 second steps.
- Countdown timer shows time remaining until release.
- Supports up to 7 status indicators and up to 7 ancillary boards.
- Built-in extract fan control.
- Zero time delay upon manual release option
- Non-latching zone input option to receive signals from other systems such as aspirating equipment

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Programmable Functions

Access Level 2

- Test Zones 1 to 3
- Disable Zones 1 to 3
- Disable 1st Stage Alarms
- Disable Pre-activated 1st Stage Relay
- Disable Pre-activated 2nd Stage Relay
- Disable Extract Fan Output
- Disable Manual Release Input
- Disable Extinguishant Sub System
- Activate Extract Fan Output
- Activate Alarm Delays

Access Level 3

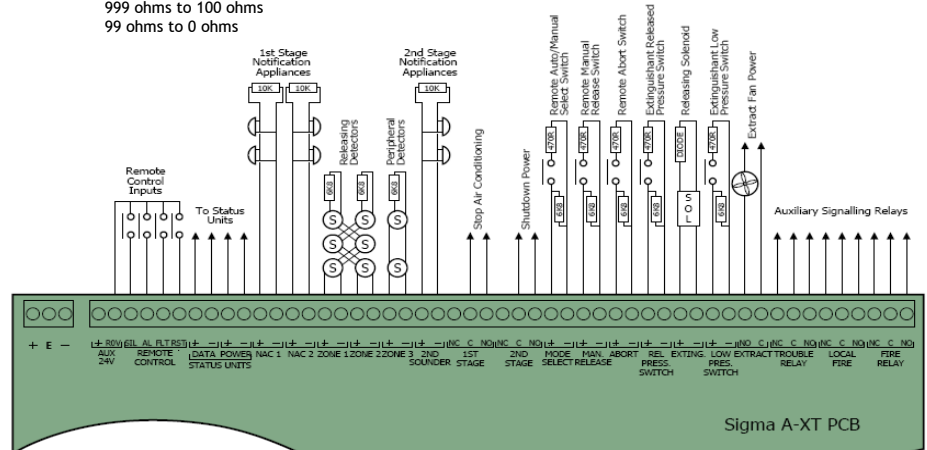
- Sounder Delay
- Coincidence Detection
- Disable Panel Features
- Zone Alarm Delays (Detectors)
- Zone Alarm Delay (Call Points)
- Configure Zone for I.S Barrier Use
- Zone Short Circuit Alarm
- Zone Non Latching
- Zone Inputs Delay
- Extinguishant Release Time Delay
- Extinguishant Release Duration Timer
- Extinguishant Reset Delay Timer

Technical specifications

- Size/Weight (incl. battery)
- Construction/IP Rating
- Finish/Colour-Lid&Box
- Operation temperature/ingress protection
- Mains supply
- Mains supply fuse
- Power supply rating
- Maximum ripple current
- Battery type (Yuasa NP)
- Battery charge voltage/current
- Battery fuse
- Maximum current draw from batteries
- Quiescent current of panel in mains fail
- Terminal capacity
- ROV output
- Sounder outputs
- Relays contact rating
- Fault, Fire, Local fire, First stage, Second stage, Extract
- Zone quiescent current
- Number of detectors per zone
- Number of sounders per circuit
- Detection/Monitored circuit end of line
- Sounder circuit end of line
- Extinguishant output end of line
- No. of detection circuits
- No. of sounder circuits
- Extinguishant release output
- Extinguishant release delay
- Extinguishant release duration
- Status unit/Ancillary board connection
- Status unit power output
- SIL, AL, FLT, RST inputs
- Zone normal threshold
- Detector alarm threshold
- Call point alarm threshold
- Short circuit threshold
- Monitored inputs normal threshold
- Monitored inputs alarm threshold
- Monitored inputs Short circuit threshold

- 368 X 310 X 90 cm/5 kg
- 1.2mm mild sheet steel/IP30
- Epoxy powder coated/Red RAL3002 (optional grey BS00A05 semi-matt)
- 5 °C to + 50 °C / IP 30
- 230V AC +10%/-15% (100 Watts maximum)
- 1.6 Amp (F1.6A L250V)
- 3 Amps total, including battery charge 28V +/- 2V
- 200 millivolts
- Two 12V/7Ah sealed lead acid in series
- 27.6VDC nominal (temperature compensated)/ 0.7A maximum
- 20mm, 3.15A glass
- 3 Amps
- 0.095A
- 12 AWG (0.5mm² to 2.5mm²) solid or stranded wire
- Fused at 500mA with electronic fuse
- 24V fused at 500mA with electronic fuse
- 30VDC 1A maximum
- 2mA maximum
- Dependent on type (maximum 32)
- Dependent on type (max. 0.5A per sounder circuit)
- 6K8 5% ½ Watt resistor
- 10k 5% ½ Watt resistor
- 1N4004 Diode
- 3
- 2 x 1st Stage, 1 x 2nd Stage
- Fused at 1 Amp (3 Amps for max. 20mS)
- Adjustable 0 to 60 seconds (in 5 second steps)
- Adjustable 60 to 300 seconds (in 5 second steps)
- Two wire RS485 connection
- Fused at 500mA with electronic fuse
- Switched -ve, max. resistance 100 ohms
- 8K ohms to 1K ohm
- 999 ohms to 400 ohms
- 399 ohms to 100 ohms
- 99 ohms to 0 ohms
- 8K ohms to 1K ohm
- 999 ohms to 100 ohms
- 99 ohms to 0 ohms

Stand-by capacity (Battery capacity)
 Normal operation (90mA) 77 hours (7.0 Ah battery)
 Alarm operation (200mA) 35 hours (7.0 Ah battery)



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