

SIGNALING



SIGMA A-XT

Extinguishant Control Panel UL/FM Approved

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
- ▶ Configurable detection delays
- ▶ Zero time delay upon manual release option
- ▶ Supports up to seven, four wire status indicators
- ▶ Built in Extract Fan control
- ▶ Compatible with I.S. barriers
- ▶ Non-latching zone input option to receive signals from other systems such as aspirating equipment
- ▶ Configurable releasing delays up to 60 seconds in 5 second stops
- ▶ Configurable releasing duration up to 5 minutes in 5 second steps.
- ▶ Countdown timer shows time remaining until release



Description

Sigma A-XT releasing panel offers outstanding value and performance for all small to medium fixed fire-fighting installations.

With three initiating 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 types of activations 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 time is duplicated on up to seven remote status units to provide local indication of the system status.

With all 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 grey.

Panels

Product Code	Description	Size (mm)
K1810-12	Surface mounting panel- Red 115V	368 x 310 x 90
K1810-44	Surface mounting panel- Grey 115V	368 x 310 x 90
K1810-13	Surface mounting panel- Red 230V	368 x 310 x 90
K1810-43	Surface mounting panel- Grey 230V	368 x 310 x 90

Specification

Construction	1.2mm mild sheet steel
IP rating	IP30
Finish	Epoxy powder coated
Colour- lid & box	Red RAL 3002 (optional grey BS 00 A 05 semi-matt)
Mains supply	230V AC or 115V AC
Mains supply fuse	1.6Amp (FL.6A L250V)
Power supply rating	3 Amps total including battery charge 28V +/- 2V

Specification	
Maximum ripple current	200 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
RoV 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	12 AWG
Number of detectors per zone	Dependent on type (maximum 32)
NAC rating	0.5A per circuit
Detection circuit end of line	6K8 5% 1/2 Watt resistor
Monitored input end of line	6K8 5% 1/2 Watt resistor
Sounder circuit end of line	10K 5% 1/4 Watt resistor
Extinguishant output EOL	1N4004 Diode
No. of initiating circuits	3
No. of NAC 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
Zone normal threshold	8K ohms to 1k ohm
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
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

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 replay	Zone alarm delay (call stations)
Disable extract fan output	Configure zone for I.S barrier use
Disable manual release input	Zone short circuit alarm
Disable releasing 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

