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Sigma XT | Extinguishant Control Panel

BS-EN12094-1
KM 96761

Features

- Approved to EN12094-1, EN54-2 and EN54-4
- Three detection zones as standard
- 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
- Configurable extinguishant delays up to 60 seconds in 5 second steps
- Configurable extinguishant duration up to 5 minutes in 5 second steps
- Countdown timer shows time remaining until release
- Supports up to seven, four wire status indicators
- Built in Extract Fan control

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

Product Overview

- Designed and manufactured to the highest standards in a quality controlled environment and with European EN12094-1 approvals, the Sigma XT extinguishant releasing panel 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 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 XT allow the functionality of the system to be extensively modified while still complying with the requirements of the controlling standard for the equipment (EN12094-1, EN54-2 and EN54-4).
- The panel contains a large LED display to enable easy configuration and control which also displays the time remaining until extinguishant release for added user safety.
- The countdown timer is duplicated on up to seven remote status units to provide local indication of the extinguishant system status.
- With all of the electronics mounted on a single, easily removable, steel plate Sigma XT panels are both robust and easy to install.
- Sigma XT is supplied in an enclosure that matches the design and colour of the Sigma CP range.

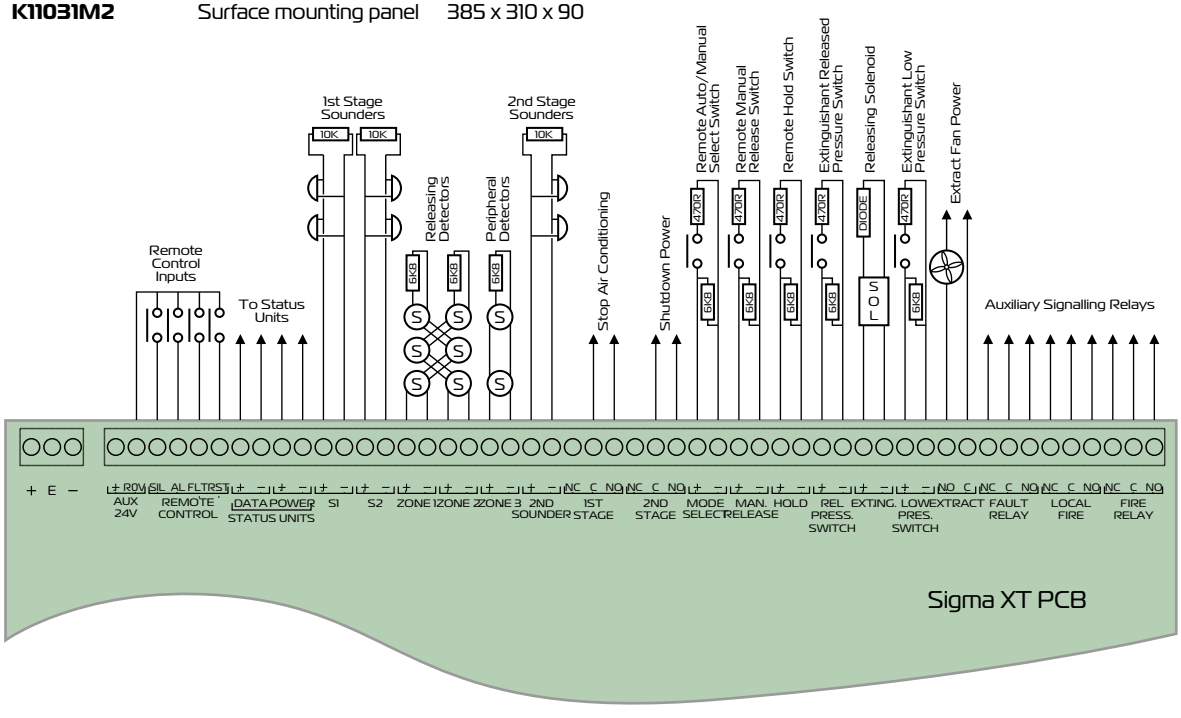
Model No. K11031M2

Technical

Construction	-	1.2mm mild sheet steel
IP Rating	-	IP30
Finish	-	Epoxy powder coated
Colour - lid & box	-	BS 00 A 05 grey - fine texture
Colour - controls plate & 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	-	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	-	0.5mm² to 2.5mm² 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
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
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



Sigma XT PCB