

Sigma XT+ 4 Multi Area Extinguishant Control Panel

- 2, 4 or 8 detection zones
- 1 to 4 extinguishant areas
- Dual extinguishant outputs for each area (configurable as Main/Reserve)
- First and second stage sounder outputs for each area
- First and second stage volt free changeover contacts for each area
- Released volt free contact per area
- Fault volt free contact per area
- Programmable extinguishant delays
- Programmable output duration
- Approved to EN12094-1, EN54-2 and EN54-4



Sigma XT+ control panels are multi-area extinguishant control panels complying with EN12094-1, EN54-2 and EN54-4.

Up to 8 zones of conventional detection with up to 4 extinguishant areas are available.

Stand alone extinguishant control units are also available with 2 monitored inputs to receive initiating signals from remote fire detection control panels or addressable modules.

Each extinguishant area has a comprehensive set of inputs and outputs and is configurable via a simple programming interface. All extinguishant areas may have up to 7, serially connected Sigma Si status indication and control units or ancillary relay boards connected via a simple 4 core cable.

The versatility of the control panel can be enhanced further by the fitting of up to 7 Sigma CP Ancillary boards (K580) or Sigma CP Sounder boards (K461) to the RS485 serial bus.

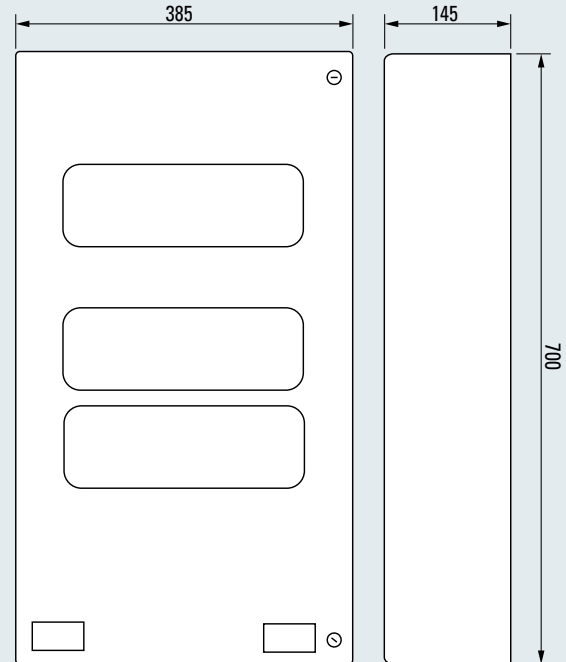
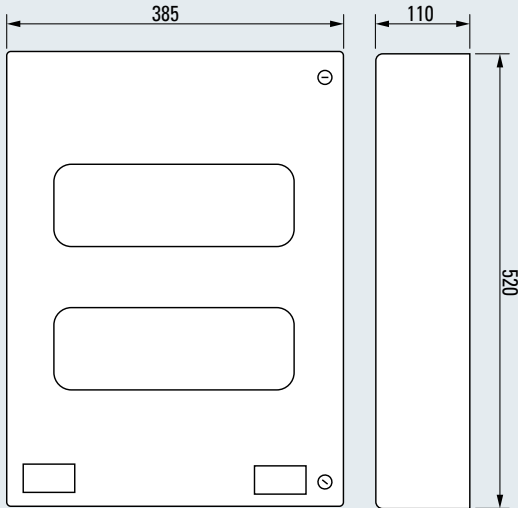
For compatible status units see Sigma Status Indicator data sheet MED2196.

Key Features continued from above...

- Extract fan control
- Countdown indicator shows time until release in seconds
- Mode select and manual release controls per area
- Monitored remote manual release input
- Monitored remote Hold input
- Monitored remote Mode select (door interlock) input
- Monitored remote Released pressure switch input
- Monitored remote Low Pressure switch input
- Monitored Abort input
- Serial connection for Sigma Si status units and ancillary boards.

Technical Specification

Dimensions (mm)



Ancilliary Boards



Sigma XT Ancilliary Board



Sigma CP Ancilliary Board



Sigma CP Sounder Board

Order Codes

Code	Description	Dimensions
SIGMA XT+ 2+1	2 Zone, 1 Area	385(W) x 520(H) x 110(D)
SIGMA XT+ 4+1	4 Zone, 1 Area	385(W) x 520(H) x 110(D)
SIGMA XT+ 4+2	4 Zone, 2 Area	385(W) x 520(H) x 110(D)
SIGMA XT+ 8+1	8 Zone, 1 Area	385(W) x 520(H) x 110(D)
SIGMA XT+ 8+2	8 Zone, 2 Area	385(W) x 520(H) x 110(D)
SIGMA XT+ 8+3	8 Zone, 3 Area	385(W) x 700(H) x 145(D)
SIGMA XT+ 8+4	8 Zone, 4 Area	385(W) x 700(H) x 145(D)

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	-	8kg (standard panel)
Mains supply	-	230V AC, 50Hz +10% - 15% (100 Watts maximum)
Mains supply fuse	-	1.6 Amp (F1.6A L250V)
Power supply rating (1 & 2 area units)	-	3 Amps total including battery charge 28V +/- 2V
Power supply rating (3 & 4 area units)	-	5.25 Amps including battery charge 28V +/- 2V
Maximum ripple current	-	200 millivolts
Battery charge voltage	-	27.6VDC nominal (temperature compensated)
Battery charge current	-	0.7A maximum
Battery fuse	-	20mm, 3.15A glass
Current draw in mains fail condition	-	54 milliamps per module
Max. current draw from batteries	-	3A or 4A (Model dependant)
Sigma XT+ module Aux 24V output	-	Fused at 500mA with electronic fuse - 1 per extinguishant area
Sigma CP Aux 24V output	-	Fused at 2.5A - not available to user
1st and 2nd stage Sounder outputs	-	21 to 28V DC Fused at 1A with electronic fuse
Fault relay contact rating	-	5 to 30VDC 1A Amp maximum for each
Fire relay contact rating	-	5 to 30VDC 1A Amp maximum for each
Local fire relay contact rating	-	5 to 30VDC 1A Amp maximum for each
First stage contact rating	-	5 to 30VDC 1A Amp maximum for each
Second stage contact rating	-	5 to 30VDC 1A Amp maximum for each
Extract contact rating	-	5 to 30VDC 1A Amp maximum for each
Zone quiescent current	-	0mA minimum, 2mA maximum
Terminal capacity	-	0.5mm ² to 2.5mm ² solid or stranded wire
Number of detectors per zone	-	Dependent on type - typically 20
Number of sounders per circuit	-	Dependent on type and current consumption - typically 20+
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 end of line	-	1N4004 Diode
No. of detection circuits	-	Two to eight. 21 to 28V DC
No. of sounder circuits	-	Dependent on model 21 to 28V DC
Extinguishant release output	-	21 to 28V DC. Fused at 1 Amp
Extinguishant release delay	-	Adjustable 0 to 60 seconds (+/- 10%)
Extinguishant release duration	-	Adjustable 60 to 300 seconds
SIL, AL, FLT, RST inputs	-	Switched -ve, min resistance 0 ohms, max resistance 100 Ohms
Zone normal threshold (Allowable EOL)	-	10K ohm to 2K ohm
Detector alarm threshold	-	1K ohms to 390 ohms
Call point alarm threshold	-	370 ohms to 150 ohms
Short circuit threshold	-	130 ohms to 0 ohms
Head removal condition	-	15.5 to 17.5 volts
Cabling	-	FP200 or equivalent (max capacitance 1uF max inductance 1 mH)
Monitored inputs normal threshold (Allowable EOL)	-	10K ohm to 2K ohm
Monitored inputs alarm threshold	-	2K ohms to 150 ohms +/- 5%
Monitored inputs Short circuit threshold	-	140 ohms to 0 ohms +/- 5%
Status unit/Ancillary board connection	-	Two wire RS485 connection (EIA-485 specification)
Status unit power output	-	21 to 28V DC. Fused at 500mA with electronic fuse