

Sigma XT+



Product Overview

- O 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. See data sheet DS39 and DS48.
- For compatible status units see Sigma Si data sheet DS41.

Multi-Area Extinguishant Control Panels

Features

- Approved to EN12094-1, EN54-2 and EN54-4
- 2, 4 or 8 detection zones
- □ 1 to 4 extinguishant areas
- Dual extinguishant outputs for each area (configurable as Main/ Reserve)
- O 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
- O Programmable extinguishant delays
- Programmable output duration
- Extract fan control
- O Countdown indicator shows time until release in seconds
- O Mode select and manual release controls per area
- Monitored remote manual release input
- Monitored remote Hold input
- O 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. (K588)







Panels

Product Code	Zones	Areas	Size (mm)
K21021M3	2	1	385 x 520 x 110
K21041M3	4	1	385 x 520 x 110
K21042M3	4	2	385 x 520 x 110
K21081M3	8	1	385 x 520 x 110
K21082M3	8	2	385 x 520 x 110
K21083M4	8	3	385 x 700 x 145
K21084M4	8	4	385 x 700 x 145

Technical

1.2mm mild sheet steel Construction

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)

230V AC, 50Hz +10% - 15% (100 Watts maximum) Mains supply

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 200 millivolts

Maximum ripple current

27.6VDC nominal (temperature compensated) Battery charge voltage

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 (K21021, K21041, K21042, K21081, K21082)

4A (K21083, K21084)

Sigma XT+ module Aux 24V output Fused at 500mA with electronic fuse - 1 per extinguishant area

Fused at 2.5A - not available to user Sigma CP Aux 24V output 1st and 2nd stage Sounder outputs 21 to 28V DC Fused at 1A with electronic fuse 5 to 30VDC 1A Amp maximum for each Fault relay contact rating 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

OmA minimum, 2mA maximum Zone quiescent current

0.5mm2 to 2.5mm2 solid or stranded wire Terminal capacity

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 10K +/- 5% ¼ Watt resistor Sounder circuit end of line

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 370 ohms to 150 ohms Call point alarm threshold Short circuit threshold 130 ohms to 0 ohms Head removal condition 15.5 to 17.5 volts

Cabling FP200 or equivalent (max capacitance luF max inductance l mH

Monitored inputs normal threshold 10K ohm to 2K ohm (Allowable EOL)

Monitored inputs alarm threshold 2K ohms to 150 ohms +/- 5% Monitored inputs Short circuit threshold 140 ohms to 0 ohms +/- 5%

Two wire RS485 connection (EIA-485 specification) Status unit/Ancillary board connection Status unit power output 21 to 28V DC. Fused at 500mA with electronic fuse