



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)
- 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
- 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. (K588)

Product Overview

- 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.



Model No. K21082M3

Sigma XT Ancillary
Board - K588Sigma CP Ancillary
Board - K580Sigma CP Sounder
Board - K461

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

| | |
|--|--|
| 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 (K21021, K21041, K21042, K21081, K21082) 4A (K21083, K21084) |
| 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 |