# **Suppression Panels - Conventional**

### Sigma XT +

## Multi-Area Extinguishing Control Panel

#### **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 selector (indoor 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.
- □ 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 boars connected via a simply 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 RS465 serial bus. See data sheet DS39 and DS48.
- □ For compatible status units see Sigma Si data sheet DS41.











# **Suppression Panels - Conventional**

### Sigma XT +

## Multi-Area Extinguishing Control Panel

### **Technical Specifications**

Construction 1.2mm mild sheet steel

**IP** Rating IP30

Epoxy powder coated Finish Colour - lid & box BS 00 A 05 grey - fine texture RAL 7047 light grey - satin Colour - controls plate & labels 8kg (standard panel) Weight

230V AC +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) 5.25Amps total including battery charge 28V +/- 2V

200 millivolts Maximum ripple current

Battery charge voltage 27.6VDC nominal (temperature compensated)

Battery charge current 0.7A maximum Battery fuse 20mm, 3.15A glass 54 milliamps per module Current draw in mains fail condition

Max. current draw from batteries 3A (K21021, K21041, K21042, K21081, K21082)

4A (K21083, K21084)

Fused at 500mA with electronic fuse Sigma + module Aux 24V output

24V Fused at 500mA with electronic fuse - 1 per extinguishant area

Sigma CP Aux 24V output 1<sup>st</sup> and 2<sup>nd</sup> stage sounder outputs 21 to 28V DC fused at 1A with electronic fuse

Fault relay contact rating 5 to 30VDC 1A Amp maximum Fire relay contact rating 5 to 30VDC 1A Amp maximum 5 to 30VDC 1A Amp maximum Local fire relay contact rating 5 to 30VDC 1A Amp maximum 5 to 30VDC 1A Amp maximum First stage contact rating Second stage contact rating 5 to 30VDC 1A Amp maximum Extract contact rating Zone quiescent current 0mA minimum, 2mA maximum

0.5mm<sup>2</sup> to 2.5mm<sup>2</sup> 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% 1/2 Watt resistor Monitored input end of line 6K8 5% 1/2 Watt resistor 10K 5% ¼ Watt resistor Sounder circuit end of line Extinguishant output end of line 1N4004 Diode No. of detection circuits 2 to 8, 21-28V DC

Dependent on model, 21-28V DC No. of sounder circuits Extinguishant release output 21 - 28v DC. Fused at 1 Amp Adjustable 0 to 60 seconds (+/-10%) Extinguishant release delay 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 ohms to 2K ohms 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

FP200 or equivalent (max. capacitance 1uFmax inductance 1mH)

Monitored inputs normal threshold (allowable EOL) 10K ohms to 1K ohms 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 21-28V DC. Fused at 500mA with electronic fuse

#### **Panels**

<b>Product Code</b>	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

Approvals registered under Kentec Electronics Ltd

