



BS-EN12094-1  
KM 96761

# SYNCRO XT+

## Extinguishant Control Panel

### Features

- ▶ Approved to EN12094-1, EN54-2 and EN54-4
- ▶ 16 detection zones
- ▶ Up 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 delay
- ▶ Programmable output duration
- ▶ 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 Abort input
- ▶ Serial connections for Sigma Si status units and ancillary boards. (K588)



### Description

Syncro XT+ multi area addressable control panel enables extinguishing systems to use all the features and benefits of the more sophisticated detection techniques provided by addressable fire detectors. It also includes other benefits of analogue addressable systems such as control of loop connected sounders, beacons and input/output modules.

With up to 16 zones of addressable detection over one or two loops it ensures every detector can contribute to the extinguishant release.

The Syncro XT+ has up to four extinguishing areas and two releasing outputs per area which can be controlled via simple coincidence detection or via more complex cause and effects configured by the Loop Explorer configuration programme.

Each extinguishant area has a comprehensive set of inputs and outputs and is configurable via the Loop Explorer configuration programme.

All extinguishant areas may have up to seven serially connected Sigma Si

status indication and control units, or ancillary relay boards connected via a simple four-core cable.

With the addition of a Syncro network card, Syncro XT+ control panels can be networked to provide scalable extinguishing systems for all sizes of installation.

Panels			
Product Code	Loop	Area	Size (mm)
#31161M3	1	1	385 x 520x 110
#32161M3	2	1	385 x 520x 110
#31162M3	1	2	385 x 520x 110
#32162M3	2	2	385 x 520x 110
#31163M4	1	3	385 x 700x 145
#32163M4	2	3	385 x 700x 145
#31164M4	1	4	385 x 700x 145
#32164M4	2	4	385 x 700x 145

\*# - replace with 'A' for Apollo protocol or 'H' for Hochiki protocol.

Specification	
Construction	1.2mm mild sheet steel
IP Rating	IP30
Finish	Epoxy powder coated
Colour - lid & box	BS 00 A 05 grey - fine texture
Colour - control panel & labels	RAL 7047 light grey - satin
Weight	10kg
Mains supply	230V AC +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)	4 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 extinguishing module
Maximum current draw from batteries	3A (#31161M3, #32161M3, #31162M3, #32162M3) 5.25A (#31163M4, #32163M4, #31164M4, #32164M4)
Sigma XT+ module Aux 24V output	Fused at 500mA with electronic fuse - 1 per extinguishant area
Syncro AS 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	2mA maximum
Terminal capacity	0.5mm <sup>2</sup> to 2.5mm <sup>2</sup> solid or stranded wire
Number of sounders per circuit	Dependent on type and current consumption - typically 20+
Monitored input end of line	6K8 5% 1/2 Watt resistor
Sounder circuit end of line	10K 5% 1/4 Watt resistor
Extinguishant output EOL	1N4004 Diode
No. of detection circuits	1 or 2
No. of zones	16
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

## Specification

Cabling	FP200 or equivalent (max capacitance 1uF max inductance 1 mH)
Monitored inputs normal threshold	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