

SIGMA XT+

Extinguishant Coincidence Unit

Features

- ▶ Approved to EN12094-1, EN54-2 and EN54-4
- ▶ Dual extinguishant outputs
- ▶ First and second stage sounder outputs
- ▶ First and second stage relay contacts
- ▶ Main/reserve facility
- ▶ Serial connection to Status Indicators
- ▶ Discharge countdown time indicator



Description

The Sigma XT+ Extinguishant Coincidence Unit (ECU) has two fully monitored inputs for connection to fire detection control equipment or addressable control modules to provide an EN12094-1, EN54-2 and EN54-4 compliant extinguishant control system.

Its many programmable features and extensive range of inputs and outputs make the Sigma XT+ ECU suitable for all extinguishing applications where a fully featured control device is required.

Among the many features of the Sigma XT+ ECU are serially connected status units for reduced wiring and reduced installation cost, dual extinguishant outputs that may be configured for main/reserve applications and a countdown timer which displays the time until discharge of the extinguishant in seconds.

All units are independently configurable via a simple, code based programming interface to suit the desired application.

Specification

Product Code	K21001H2
Product Dimensions	385mm (w) x 310mm (h) x 110mm (d)
Construction	1.2mm mild sheet steel surface mount enclosure
IP Rating	IP30
Finish	Epoxy powder coated
Colour - lid & box	BS 00 A 05 grey - fine texture
Colours - control plates & labels	RAL 7047 light grey - satin
Weight	7kg
Areas	8 lines of 40 characters graphic LCD
Mains input supply voltage	230V AC 50/60Hz or 110V 50/60Hz (link selectable)
Mains supply fuse	250V, 3A, SB, 5
Power supply rating	24V, 5.25 A (nominal)

Specification

Battery type (Yuasa NP)	12V sealed lead acid (connected in series)
Maximum battery capacity (within enclosure)	2 x Yuasa 7Ah
Battery charge voltage	27.6V DC nominal (temperature compensated)
Battery charge current	Two stage, constant voltage, 1.25A maximum
Load fuse	5A, self resetting
Maximum current draw from batteries	7 Amps
Aux 24V output	Fused at 500mA with electronic fuse
1st and 2nd stage Sounder outputs	21 to 28V DC fused at 1A with electronic fuse
Fault relay contact rating	5 to 30V DC 1A maximum for each
Fire relay contact rating	5 to 30V DC 1A maximum for each
Local fire relay contact rating	5 to 30V DC 1A maximum for each h
First stage contact rating	5 to 30V DC 1A maximum for each
Second stage contact rating	5 to 30V DC 1A maximum for each
Extract contact rating	5 to 30VDC 1A 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 sounders per circuit	Dependent on type and current consumption
Monitored input end of line	6K8 +/- 5% 1/2 W resistor
Sounder circuit end of line	10K +/- 5% 1/4 W resistor
Extinguishant output end of line	1N4004 diode
Extinguishant release output	21 to 28V DC. Fused at 1A
Extinguishant release delay	Adjustable 0 to 60 seconds (+/- 10%)
Extinguishant release duration	Adjustable 60 to 300 seconds
Monitored inputs normal threshold	(Allowable EOL) 10K Ohm to 2K Ohm
Monitored inputs alarm threshold	2K ohms to 150 Ohms +/- 5%
Monitored inputs	140 ohms to 0 Ohms +/- 5%
Status Indicator/Ancillary board connection	Two wire RS485 (EIA-485 specification)
Status unit power output	21 to 28V DC, Fused at 500mA with electronic fuse

Example Schematic 1

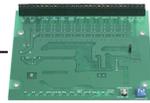
Sigma CP-R
Repeater Panel
(Up to 7)



Sigma CP
Ancillary
Board (S580)



Sigma CP
Sounder
Board (S461)



24V
Power Supply



Up to 4 Sigma XT+ coincidence units may be fitted



Sigma CP
Control Panel

RS485



Sigma XT+ Coincidence Unit

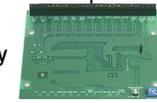


Sigma XT+ Coincidence Unit

230V

RS485

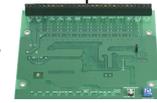
Up to 7
Ancillary
Boards



K588 Ancillary Board

RS485

Up to 7
Ancillary
Boards



K588 Ancillary Board

Up to 7
Status
Units



System Status & Control

Up to 7
Status
Units



System Status & Control

Example Schematic 2

Syncro AS
Control Panel



1

Loop Module
(By others)

2

Loop Module
(By others)



Sigma XT+ Coincidence Unit



Sigma XT+ Coincidence Unit

230V

RS485

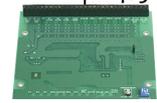
Up to 7
Ancillary
Boards



K588 Ancillary Board

RS485

Up to 7
Ancillary
Boards



K588 Ancillary Board

Up to 7
Status
Units



System Status & Control

Up to 7
Status
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System Status & Control