Extinguishant Coincidence Unit

Product Overview

- The Sigma XT+ ECD coincidence unit has two fully monitored inputs for connection to fire detection control equipment or addressable control modules to provide an EN12094-1 compliant extinguishant control system.
- Its many programmable features and extensive range of inputs and outputs make the Sigma XT+ ECD coincidence unit suitable for all extinguishing applications where a fully featured control device is required.
- Among the many features of the Sigma XT+ ECD 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.

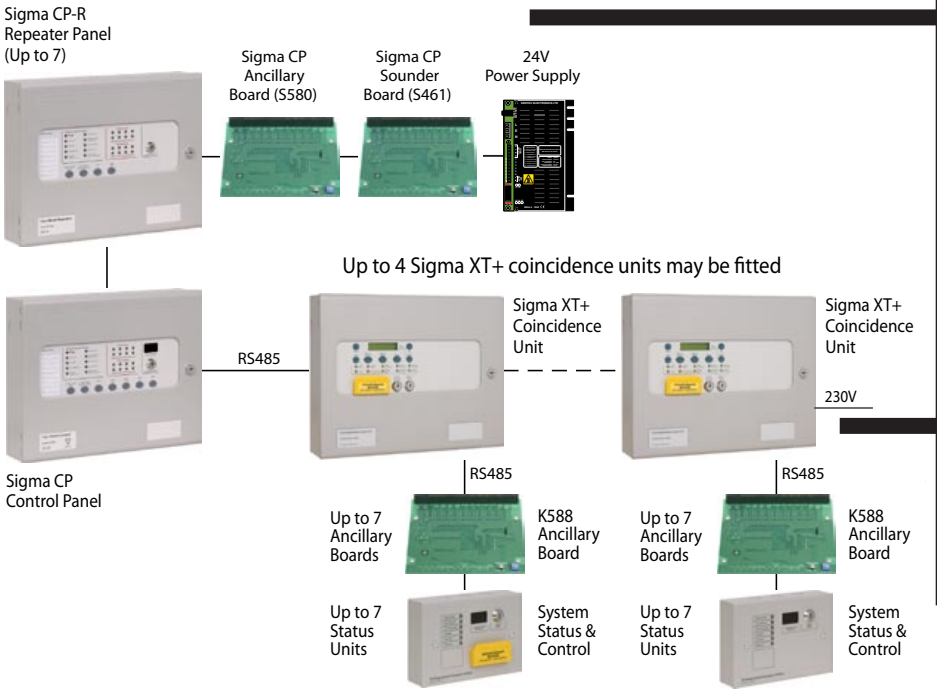
Features

- Complies with EN12094-1
- Dual extinguishant outputs
- First and second stage sounder outputs
- First and second stage relay contacts
- Main reserve facility
- Serial connection to status units
- Discharge countdown time indicator

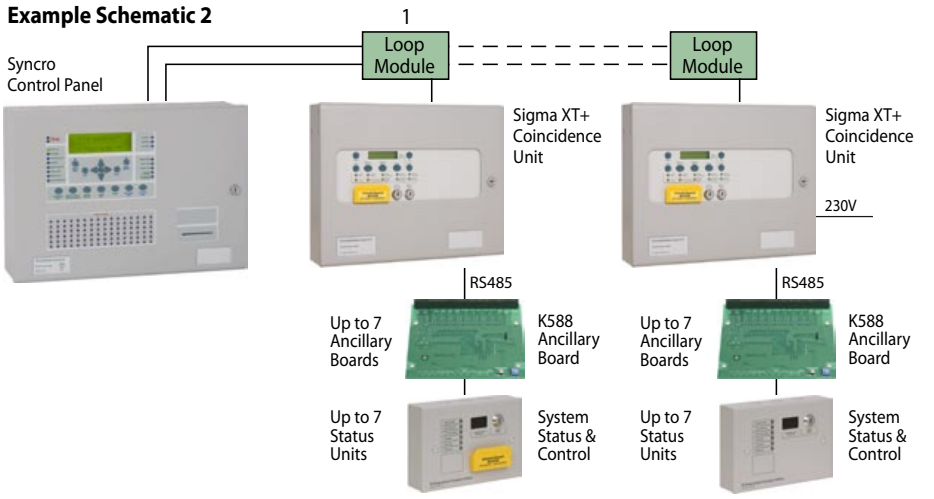
Model No. K21001M2

Specifications

Example Schematic 1



Example Schematic 2



Technical

Product Code	- K21001M2
Finish	- Epoxy powder coated
Colour - lid & box	- BS 00 A 05 grey - fine texture
Colour - controls plate & labels	- RAL 7047 light grey - satin
Size	- 385mm(W) x 310mm(H) x 90mm(D)
Areas	- 1
Mains supply	- 230V AC, 50Hz +10% - 15% (100 Watts max.)
Mains supply fuse	- 1.6 Amp (F1.6A L250V)
Power supply rating	- 4 Amps total including battery charge 28V +/- 2V
Power supply rating (K21083, K21084)	- 4 Amps including battery charge 28V +/- 2V
Maximum ripple current	- 200 millivolts
Battery type (Yuasa NP)	- 12 Volt sealed lead acid in series
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
Maximum current draw from batteries	- 4 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 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	- 0.5mm2 to 2.5mm2 solid or stranded wire
Number of sounders per circuit	- Dependent on type and current consumption
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
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
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