



BS-EN54-2
BS-EN54-4
KM 73505

SIGMA CP

Conventional Fire Alarm Control Panel

Features

- ▶ Two-wire and standard versions in two, four or eight zones
- ▶ Compatible for use on BS5839: Part 1: 2017 installations
- ▶ Two-wire repeaters and ancillary boards
- ▶ Simple, single board construction
- ▶ Compatible with wide range of detection devices
- ▶ Two monitored sounder outputs
- ▶ Three Amp power supply
- ▶ Auxiliary power output
- ▶ Fully certified to BS EN54-2 and BS EN54-4
- ▶ Fully programmable using simple menu options
- ▶ Adjustable sounder delay time
- ▶ Sounder configuration options
- ▶ Zonal sounder delay detectors only
- ▶ Zonal sounder delay call points only
- ▶ Coincidence input selection
- ▶ I.S Barrier selection by zone
- ▶ Short circuit fire by zone
- ▶ Non latching zones
- ▶ Silent zones
- ▶ Zone input delay
- ▶ General panel configuration



Description

The Sigma CP range of conventional fire control panels are designed for the most demanding of conventional fire detection and alarm system applications.

Easy to install, the Sigma CP is available with two, four or eight detection zones in standard or installation saving, 'two wire' versions. The extensive range of configuration features available ensure suitability for new installations or panel replacements on older systems.

Configuration options are stored in non-volatile memory and are easily accessed via an intuitive user interface, which enables the configuration data to be viewed and changed efficiently.

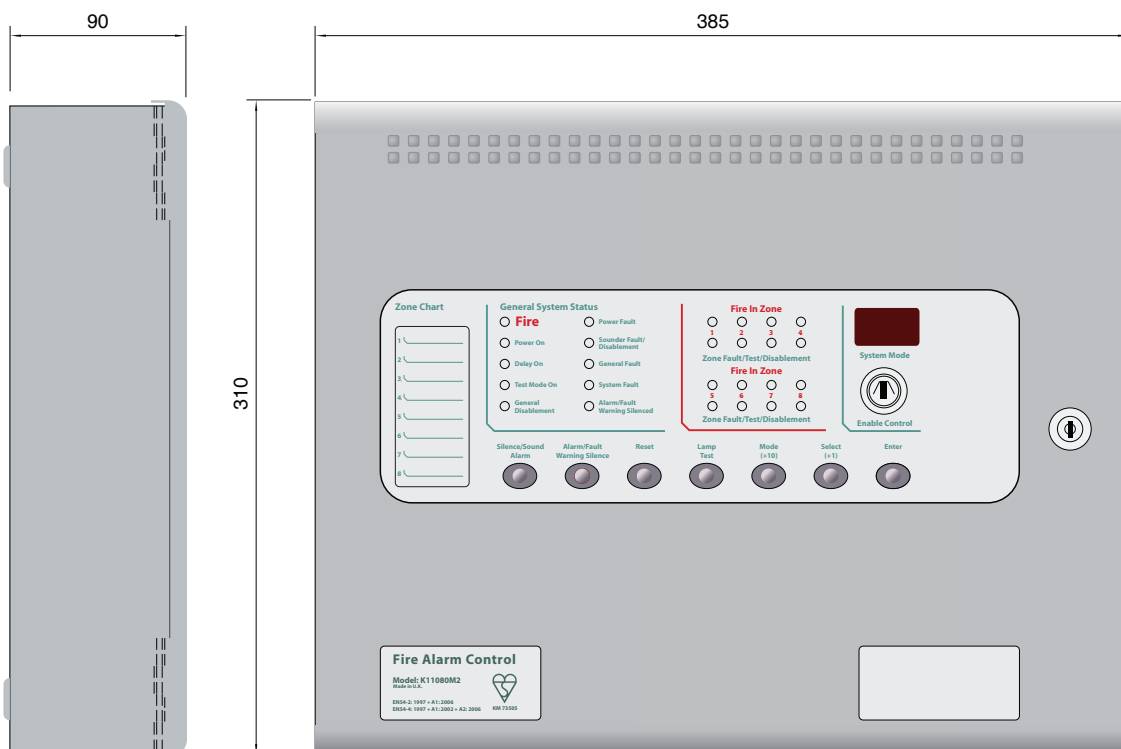
Sigma CP control panels are compatible with most standard, conventional detectors, call points and sounders and are also compatible with 'two wire' detector bases from Apollo and Hochiki.

Panels

Product Code	Description	LCMU Included	Standby Current	Alarm Current	Size (mm)
K11020M2	2 zone, 4 wire panel	No	0.065 Amps	0.1 Amps	385 x 310 x 90
K11040M2	4 zone, 4 wire panel	No	0.075 Amps	0.21 Amps	385 x 310 x 90
K11080M2	8 zone, 4 wire panel	No	0.093 Amps	0.55 Amps	385 x 310 x 90
KL11020M2	2 zone, 4 wire panel	Yes	0.065 Amps	0.1 Amps	385 x 310 x 90
KL11040M2	4 zone, 4 wire panel	Yes	0.075 Amps	0.21 Amps	385 x 310 x 90
KL11080M2	8 zone, 4 wire panel	Yes	0.093 Amps	0.55 Amps	385 x 310 x 90
T11020M2	2 zone, 2 wire panel	N/A	0.065 Amps	0.15 Amps	385 x 310 x 90
T11040M2	4 zone, 2 wire panel	N/A	0.075 Amps	0.3 Amps	385 x 310 x 90
T11080M2	8 zone, 2 wire panel	N/A	0.093 Amps	0.63 Amps	385 x 310 x 90
K18002	Tamper resisant vision window*	N/A	N/A	N/A	385 x 310 x 90

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	6kg
Supply Voltage	230V AC (+10%/-15%)
Mains supply fuse	1.6 Amp 250V
Power supply DC rating	24V 3 Amps
Maximum battery size	7Ah 12V (2 per panel)
Fault contract rating	30V DC 1 Amp
Local fire contract rating	30V DC 1 Amp
Fire contract rating	30V DC 1 Amp
Sounder output rating	0.5A per output (max 1.6A over all outputs)
Detection zone current	1.6 milliamps
Detection zone EOL resistor	6k8 5%
Active EOL	K14606K (optional)
Sounder output EOL resistor	10k 5%
Cable capacity	2.5mm ² per terminal
Operating temperature	-5°C to +40°C
Operating humidity	<95% (non condensing)





SIGMA CP-A

AlarmSense compatible 2-wire Conventional Fire Alarm Control Panel

Features

- ▶ 2 wire systems, reduces installation cabling
- ▶ 2-wire repeaters and ancillary boards via serial bus
- ▶ Fully programmable using simple menu options
- ▶ Adjustable sounder delay time
- ▶ Sounder configuration options
- ▶ Zonal sounder delay for detectors only
- ▶ Zonal sounder delay for call points only
- ▶ Coincidence output via ancillary board
- ▶ Short circuit fire selectable by zone
- ▶ Non latching selection by zone
- ▶ Silent zones (common sounder outputs)
- ▶ Zone input delay for sprinkler system connection
- ▶ AlarmSense® local alarm feature supported
- ▶ Simple, single board construction
- ▶ Installer friendly
- ▶ Compatible with all AlarmSense® devices
- ▶ Two conventional monitored sounder outputs
- ▶ 3 Amp power supply
- ▶ Auxiliary power output
- ▶ Fully certified to BS EN54-2 and BS EN54-4
- ▶ Allows systems to be installed in accordance with BS5839: Part 6



Description

The Sigma CP-A AlarmSense® range consists of a series of conventional, two, four and eight zone fire alarm control panels.

The AlarmSense system enables all detection and sounder devices in a given zone to be wired to the same pair of cables, greatly reducing the cabling and installation requirements and hence costs.

The AlarmSense range of devices includes smoke and heat detectors, call points, base sounders, base sounder/beacons and relay units – all wired to the same pair of cables.

Having sounders and sounder beacons installed on the same cabling as detectors and call points allows all systems to be configured for common, zonal or two-stage alarms by simply setting one of the panels configuration options.

beacon bases invokes the alarm verification feature. This is particularly useful in Houses of Multiple Occupation such as student accommodation or nursing homes. When sounder or sounder beacon bases are selected for local alarm mode, alarms are restricted such that only the sounder connected to the activated detector will operate initially. The panel will attempt to reset the activated detector after a time delay and if successful no further alarms are sounded. If the detector re-activates after being reset, a general alarm will sound throughout the premises.

The alarm verification feature of the Sigma CP-A control panel greatly reduces the risk of unwanted alarms or call outs while still providing secure, high quality fire protection throughout the premises.

Selection of the AlarmSense local alarm feature at sounder or sounder

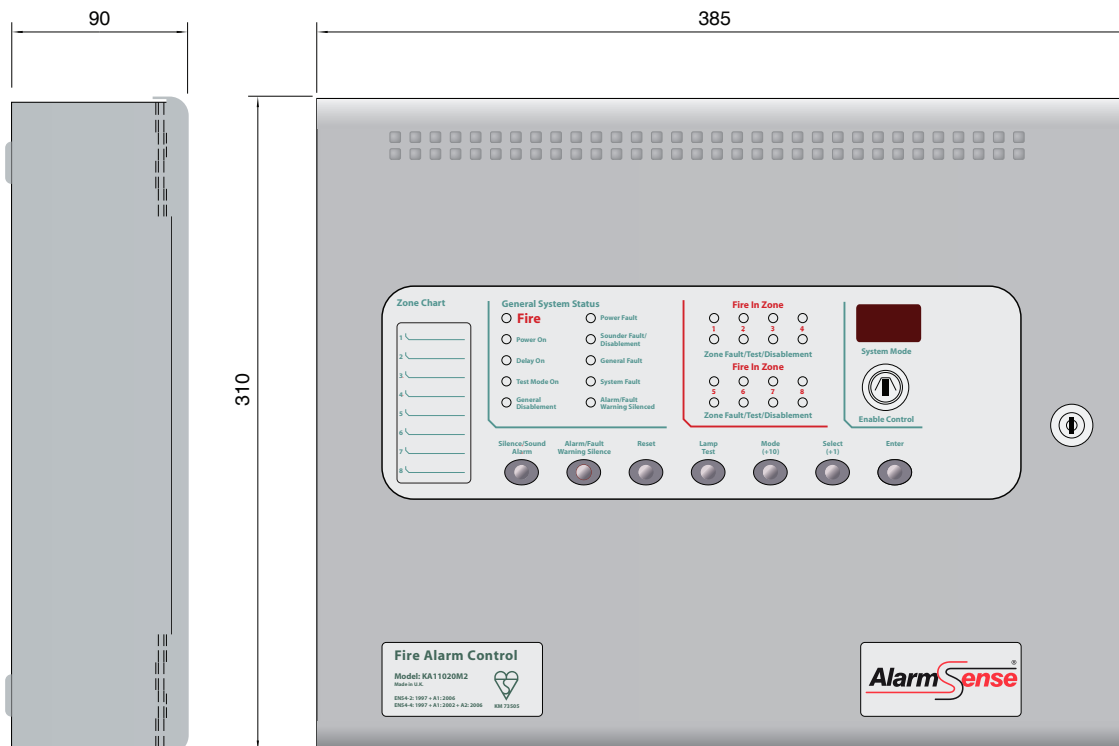
Panels				
Product Code	Description	Standby Current	Alarm Current	Size (mm)
KA11020M2	2 zone, 4 wire panel	0.065 Amps	0.1 Amps	385 x 310 x 90
KA11040M2	4 zone, 4 wire panel	0.075 Amps	0.21 Amps	385 x 310 x 90
KA11080M2	8 zone, 4 wire panel	0.093 Amps	0.55 Amps	385 x 310 x 90

Options			
Product Code	Description	Product Code	Description
K580	Stand alone ancillary board	Ko2000M2	Boxed ancillary board
K461	Sounder PCB	Ko2750M2	Boxed ancillary board with 0.75A PSU
M2FCLGT	Bezel for semi flushing panel to wall	K18002	Tamper resistant Vision Window *

* Vision Window can be easily retrofitted to any Sigma CP-A

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	6kg
Supply Voltage	230V AC (+10%/-15%)
Mains supply fuse	1.6 Amp 250V
Power supply DC rating	24V 3 Amps
Maximum battery size	7Ah 12V (2 per panel)
Fault contract rating	30V DC 1 Amp
Local fire contract rating	30V DC 1 Amp
Fire contract rating	30V DC 1 Amp
Common Sounder output rating	0.5A per output (max 1.6A over all outputs)
AlarmSense Sounder output rating	0.2A per output
Detection zone current	1.6 milliamps
Detection zone EOL resistor	3K3 5%
Sounder output EOL resistor	10k 5%
Cable capacity	2.5mm ² per terminal
Operating temperature	-5°C to +40°C
Operating humidity	<95% (non condensing)





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SIGMA CP-R

Conventional Fire Alarm Control Panel Repeater & Ancillary PCB

Features

- ▶ Sigma CP-R
 - ▶ Two wire serial connection
 - ▶ Up to 7 panels per system
 - ▶ 230V AC or 24V DC powered versions
 - ▶ Full control over main panel
 - ▶ Volt free fire and fault contact outputs
- ▶ Ancillary PCB
 - ▶ Two wire serial connection
 - ▶ Up to 7 boards per system
 - ▶ 230V AC or 24V DC powered versions
 - ▶ Open collector zonal fault outputs
 - ▶ Volt free fire, coincidence and common fault contact outputs



Description

The Sigma CP-R Repeater is compatible with all Sigma CP control panels which have operating software version V2.0 or above.

Repeaters are available with 2, 4 or 8 zones and in mains powered (K versions) or 24V powered (E versions).

Mains powered repeaters require only a two core data cable from the main control panel. 24V DC versions require an additional two cores for power either from the main panel or from another 24V DC source.

A mixture of Repeaters, Ancillary boards or Sounder Boards up to a maximum of 7 of each type can be connected to a control panel and each is allocated an address from 1 to 7 using a binary coded DIL switch. The total length of the data cable from the main panel to the last repeater must not exceed 1200 metres.

Panels

Product Code	Description	LCMU Included	Standby Current	Alarm Current	Size (mm)
E01020L2	2 zone Sigma CP-R repeater panel	24V DC	0.075 Amps	0.094 Amps	385 x 310 x 60
E01040L2	4 zone Sigma CP-R repeater panel	24V DC	0.075 Amps	0.098 Amps	385 x 310 x 60
E01080L2	8 zone Sigma CP-R repeater panel	24V DC	0.075 Amps	0.11 Amps	385 x 310 x 60
K01020M2	2 zone Sigma CP-R repeater panel with PSU	24V DC	0.075 Amps	0.094 Amps	385 x 310 x 60
K01040M2	4 zone Sigma CP-R repeater panel with PSU	24V DC	0.075 Amps	0.098 Amps	385 x 310 x 60
K01080M2	8 zone Sigma CP-R repeater panel with PSU	24V DC	0.075 Amps	0.11 Amps	385 x 310 x 60
K580	Stand alone ancillary board	24V DC	0.020 Amps	0.20 Amps	385 x 310 x 60
K02000M2	Boxed ancillary board	24V DC	0.020 Amps	0.20 Amps	385 x 310 x 60
K02750M2	Boxed ancillary board with 0.75A PSU	230V AC	0.020 Amps	0.20 Amps	385 x 310 x 60
K18002	Tamper resistant Vision Window *	N/A	N/A	N/A	N/A

Note: Also available is the Sigma Sounder Board (K461) which is compatible with all Sigma CP and CP-R panels which have operating software version V3.0 or above. See DS48 for more details.

* Vision Window can be easily retrofitted to any Sigma CP-R panel

