SynaG
Conventional Fire Alarm Panel

Key Features

- EN54 part 2 & 4 compliant, CPD certified
- Variant with Scandinavian keyswitch
- Easy removable parts for quick and clean installation
- Default regional set-up modes
- Normal, head out & intrinsically safe zone support
- Easy commission without the need for a PC
- Default support for special functions such as: mixed zones, one man walk test
- Networkable up to 32 nodes or 64 zones

Description

The SynaG range of conventional fire alarm control panels offer state of the art architecture in configurations that deliver an uncomplicated solution for small to mid-sized applications. The panels feature an attractive contemporary design that fits with any decor.

The SynaG control panels are available in 2, 4 or 8 zone options and will support up to 32 devices per zone. Detection zones provide support for device removal and intrinsically safe zones. Various language inserts are provided to allow local customisation of the front fascia.

The front fascia provides easy to use push button controls for operators and engineers. 3 different password levels are provided on the panel for operators and engineers access.

Supervised relay outputs are provided for control of sounders and fire routing. The number of supervised relay outputs will vary dependent on number of zones. Non-supervised relay outputs are also provided for signalling of fire and fault conditions.

Two inputs are provided which can be configured as supervised or unsupervised providing functions such as remote reset, class change, fire routing acknowledgment etc.

For the Scandinavian market a variation of the SynaG control panel is provided with Scandinavian key support.

Panels can be networked together in a class A (redundant) ring network or Class B (non-redundant) bus network using an additional network card.

Networking will allow use of panels as repeaters and also allow provide additional zones for a larger system i.e. 2 x 8 zone panels can be networked to create a 16 zone system .

Configuration of the control panel is carried out at access level 3 using the membrane keys and an internal seven segment display. To make the configuration simple a number of default regional set-up modes are available.

Default regional setup modes

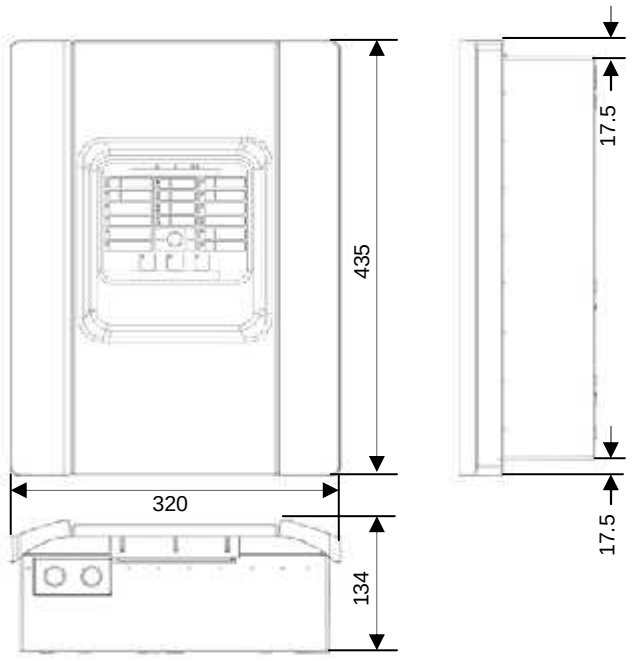
Operating mode	Region
EN 54-2(Default)	European Union
EN 54-2 Evacuation	European Union (Spain)
EN 54-2 Scandinavia	European Union (Scandinavia)
BS5839-1	United Kingdom
NBN S21-100	Belgium
NEN2535	Netherlands

The default regional set-up modes allow easy configuration of the panel inputs and outputs to meet the requirements of regional standards. The set-up modes will apply the following default configurations:

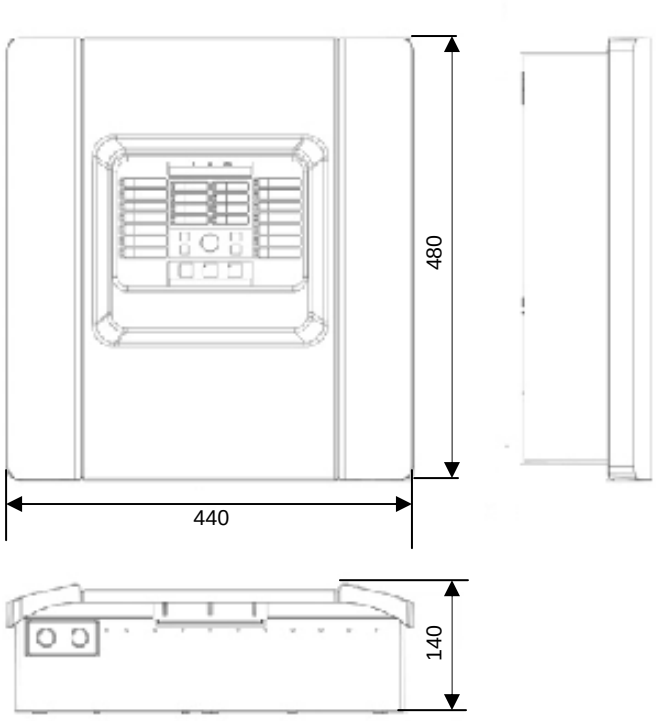
Regional Standard	Zone type	Inputs		Outputs			
		Input 1	Input 2	Out 1	Out 2	Out 3	Out 4
EN54-2	Automatic/Manual	Remote reset	Delays off	Sounder	Sounder	Sounder	Fire routing
EN54-2 Evacuation	Automatic/Manual	Remote reset	Delays off	Sounder	Sounder	Sounder	Sounder
EN54-2 Scandinavian	Automatic/Manual	Extended fire routing delay	Delays off	Sounder	Sounder	Sounder	Fire routing
BS5839-1	Automatic/Manual	Class change	Delays off	Sounder	Sounder	Sounder	Sounder
NBN S21-100	Automatic	Remote reset	Delays off	Evacuation sounders	Evacuation sounders	Warning sounders	Warning sounders
NEN 2535	Odd zones - Automatic Even zones - Manual	Fire routing inhibit delay	Delays off	Sounder	Sounder	Fire routing automatic	Fire routing manual

Configuration changes can be made using the controls located on the control panel interface with an internal seven segment display provided to show configuration codes and settings.

Panel Dimensions



2 & 4 Zone



8 Zone

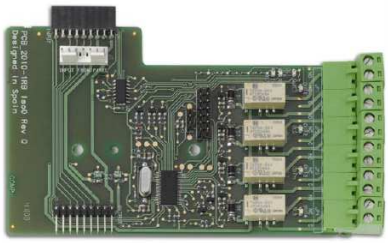
Panel specification	
Supply voltage	110 VAC/60 Hz or 240 VAC/50Hz (Tolerance +10%/-15%)
Current consumption (Max)	2 & 4 Zone - 2 Amp @ 110/240VAC 8 Zone - 3.15 Amp @ 110/240VAC
Battery capacity (Max)	2 & 4 Zone - 2 x 12v 7.2Ah SLA 8 Zone - 2 x 12v 12Ah SLA
Panel current (no devices)	Quiescent: 2 Zone - 50mA 4 Zone - 60mA 8 Zone - 80mA Alarm: 2 Zone - 130mA 4 Zone - 140mA 8 Zone - 160mA
Zone output voltage (2, 4 & 8 zone)	22 VDC (18-24 VDC)
Zone load (2, 4 & 8 zone)	65mA (Max)
Devices per zone (2, 4 & 8 zone)	32 (Max)
Supervised outputs	2 Zone - 2 outputs rated 250mA, -15 to +28 VDC 4 Zone - 4 outputs rated 250mA, -15 to +28 VDC 8 Zone - 4 outputs rated 500mA, -15 to+28 VDC
Un-supervised outputs (2, 4 & 8 zone)	Rated 2 Amp @ 30VDC
Inputs	2 x Inputs configured for supervised or unsupervised Operation can provide the following: Class change Remote reset Extended fire routing delay Fire routing inhibit delay Fire routing acknowledgement
Auxiliary supply output (2, 4 & 8 zone)	Monitored Output: 24 VDC (18-24 VDC) Load: 250mA @ 25°C, 195mA @ 40°C
Storage temperature (2, 4 & 8 zone)	-20 to +70°C
Operating temperature (2, 4 & 8 zone)	-5 to +40°C
Relative humidity (2, 4 & 8 zone)	10 to 95% (non-condensing)
IP rating (2, 4 & 8 zone)	IP30
Dimensions (H x W x D)	2 & 4 Zone - 435 x 320 x 134 mm 8 Zone - 480 x 440 x 140 mm
Weight (without batteries)	2 & 4 zone - 2.8Kg 8 Zone - 3.9Kg
Colour (2, 4 & 8 zone)	RAL 7035
Cable entries (top / bottom / rear)	2 & 4 Zone - 20mm (14 / 2 / 12) 8 Zone - 20mm (20 / 2 / 26)
Available language variants (Other language variants can be provided, please contact your sales representative to discuss)	English (International) Danish Swedish

Kidde AirSense

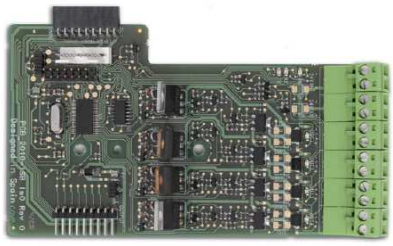
SynaG

Option cards

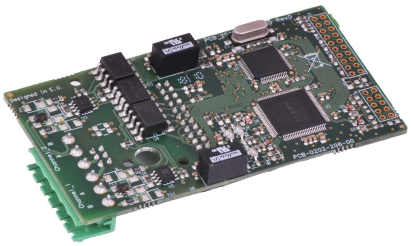
Un-supervised relay board:-
The un-supervised relay board provides 4 programmable volt free outputs that can be used for signalling of the panel status. Up to 4 of these modules can be connected to the SynaG control panel, dependent on panel size.
(See technical data sheet - TDS-CP02)



Supervised relay board:-
The supervised relay board provides 4 programmable outputs that can be used to expand the number of available sounder circuits as well as interfacing to other equipment. Up to 4 of these modules can be connected to the SynaG control panel, dependent on panel size.
(See technical data sheet - TDS-CP03)



Network board:-
The network board allows the creation of a class B or redundant class A 32 node network supporting up to 64 zones. The network board is designed to connect directly to the main board of the SynaG control panel.
(See technical data sheet - TDS-CP04)



Ordering information

Part number	Description
SG2000	SynaG - 2 Zone conventional panel
SG4000	SynaG - 4 Zone conventional panel
SG8000	SynaG - 8 Zone conventional panel
SG2000SC	SynaG - 2 Zone conventional panel (Scandinavian keyswitch)
SG4000SC	SynaG - 4 Zone conventional panel (Scandinavian keyswitch)
SG8000SC	SynaG - 8 Zone conventional panel (Scandinavian keyswitch)
2010-1-RB	Un-supervised relay board
2010-1-SB	Supervised relay board
2010-1-NB	Network board

Important! When ordering any of the control panels you must specify the language variant from the available options.

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