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An introduction to...

Syncro
AS

**Single Loop Analogue
Addressable Control Panel**



Syncro AS Overview

The new Syncro AS Single Loop Analogue Addressable Fire Control Panel is the latest exciting development from Kentec Electronics Limited.

With the mature multi loop Syncro software at its heart, the Syncro AS benefits from many years of development and refinement to provide a control panel of outstanding and unchallenged robustness, versatility and flexibility.

Syncro multi-loop fire panel users will immediately be familiar with the features and functionality of the Syncro AS panel. It has the same display, help screens, menus, configuration options and controls as the Syncro panel range with all of the power and flexibility that comes from compatibility with other components of the multi-loop Syncro system and peripherals.

This ensures that for those familiar with Syncro multi-loop panels, no retraining is required.

Syncro AS fully supports all devices from the leading, open protocol detector manufacturers and can be supplied with Apollo (S90/XP95 /Discovery), Argus Spectrum (Vega) or Hochiki (ESP) loop drivers, all capable of providing up to 400 milliamps of loop current for the most demanding applications.

An integral three Amp power supply and temperature compensated battery charger provides ample power for the two, one Amp rated standard sounder outputs, loop powered sounders and a fully loaded loop of devices.

There is also a Lite version available offering a very cost effective solution for smaller standalone installations. The Lite does not support the following functionalities: Printer output, Networking and connection of I/O boards or the View repeater.

Connectivity

Syncro AS connects seamlessly to other Syncro AS, or Syncro multi-loop panels and repeaters via the fully fault tolerant and robust Syncro network.

The Syncro AS supports all Syncro serial bus peripherals such as View repeaters, 16 channel I/O boards, Relay boards, Sounder boards and Conventional Zone boards to provide an additional 512, fully programmable points.

16 zonal LED indicators are provided as standard and the panel will support up to 500 network wide software zones as per Syncro multi-loop panels. →

Powerful Software

The simple and intuitive Loop Explorer configuration utility has been updated to include support for the Syncro AS providing the powerful cause and effect functionality familiar to Syncro multi-loop panel users.

The Guide graphics system or a modem for remote system interrogation by →

telephone lines may also be connected to Syncro AS panels via the RS232 serial connection.

All of the above combined with a host of different language options (including those with Cyrillic characters) produce an outstanding and competitive, world class fire alarm control panel.

Ease of Installation

The elegant and simple construction of the panel enables the chassis to be completely dismantled by removing just two screws. The outer cover can also be detached by removing two hinge pins making first fix installation very simple and enabling the sensitive electronic parts to be stored safely for re-fitting at the commissioning stage.

Housed in the same installer-friendly and attractively styled enclosure as the popular Sigma CP (Conventional) and Sigma XT (extinguishant) range of fire control panels, Syncro AS combines compact and practical styling with the programming power and connectivity normally associated with much larger systems.

Replacing Solo panels

The all new Syncro AS has replaced the popular Solo Single Loop Analogue Addressable Fire Control Panel which as the first cost effective, compact, open protocol single loop fire panel, has been in service for more than 10 years.

Many thousands of Solo single loop fire panels are installed and have provided many years of service but restricted component availability now means that they can no longer be produced in volume and we shall cease manufacturing at the end of November 2006. →

As with all of our products where we are able to do so, a limited supply of spares is available and we continue to offer a repair service for boards that become damaged in the field. In the event of replacement parts for Solo panels becoming unavailable, Syncro AS control panels can be fitted as a direct replacement for Solo panels in most installations .



Additional Facilities

Syncro AS is also available in a larger enclosure (M3) that incorporates a second aperture, which allows additional equipment to be added. As well as the thermal printer option, Kentec offers a range of add on's for the Syncro AS that can be used to provide additional rotary switches, key switches, or push buttons. These come with or without LED indications.

The larger enclosure is capable of housing up to 18A/H batteries.



Modular switch plates



Syncro AS in larger enclosure with printer



Optional Printer module

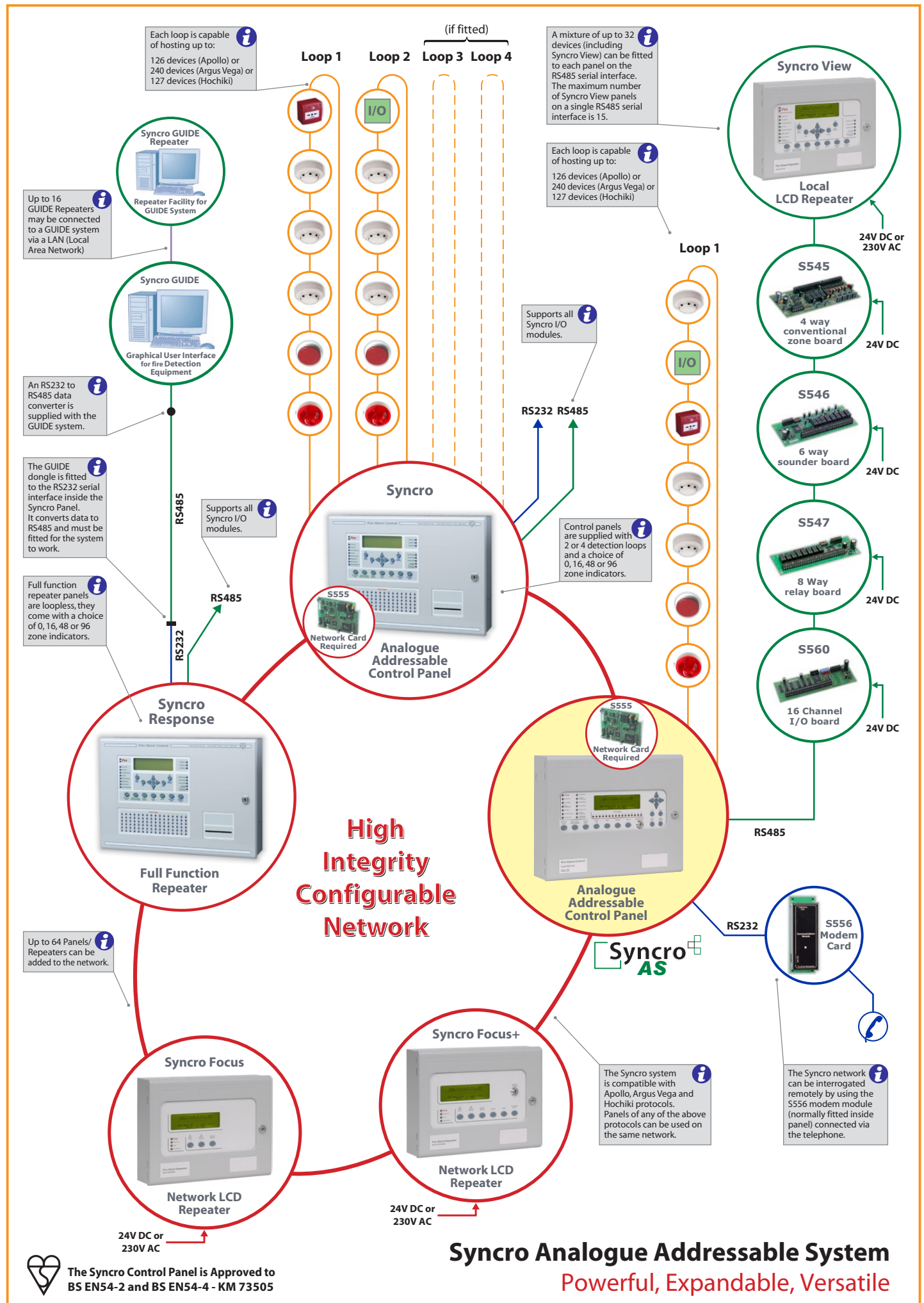
Can be retrofitted to any M3 sized enclosures

Options with and without Enable Keyswitch available



Syncro AS Fully flush version

Example System Schematic



The Syncro Control Panel is Approved to BS EN54-2 and BS EN54-4 - KM 73505

Syncro Analogue Addressable System
 Powerful, Expandable, Versatile

The following matrix shows a full comparison of the features of the Solo 2 versus the Syncro AS.

Feature	Solo 2 Control Panel	Syncro AS Control Panel
Number of loops	1	1
Display	2 lines of 40 characters	240 x 64 pixels graphical
Protocols	Apollo or Hochiki	Apollo, Argus Vega or Hochiki
Aux. 24V supply	250mA	500mA
Loop current	180mA	400mA
Programmable inputs	None	5 as standard
Programmable relays	None	3 as standard
Standard remote control inputs	Alert, Evacuate, Silence, Reset, Fault	Alert, Evacuate, Silence, Reset, Fault
External 24V supply input	None	Standard
Current available from PSU	3A	3A
Sounder outputs	2 fused at 500mA not programmable	2 fused at 1A programmable
Serial ports	2 (Printer or PC, Repeater)	4 (Printer + Expansion I/O + PC + Network)
Number of fire zones	16	500
Zonal indicators	16	16 as standard
Event log	100 events	1000 events
Internal Printer	Cost option	Cost option
BS5839-1 compliant as standard	Yes	Yes
EN54-2 and EN54-4 compliant	No	Yes
Lockable enclosure	Yes	Yes
Vandal resistant display	No	Yes
Menu selectable protocol	No	Yes (Apollo/Hochiki only)
Multiple language support	Yes	Yes
Repeaters	Serial only, up to 16	Serial bus, up to 15 (standard) or Network, up to 63 (requires network card)
Programmable I/O module serial bus	None	Standard, up to 512 points
Network	None	Fault tolerant
3 year warranty	Yes	Yes
Network nodes	None	64 (including Syncro AS)
Single board construction	No	Yes
Easily removable equipment chassis	No	Yes
Compatible with Syncro network	No	Yes
Syncro based user interface	No	Yes
Real time clock with daylight savings	No	Yes
Compatible with modem	No	Yes
Compatible with Syncro GUIDE Graphics System	No	Yes
Standard Syncro config. Software and download lead	Yes	Yes

Syncro AS technical specifications chart.

Item	Electrical Rating	Comment
Mains supply	230V AC 50Hz +10% - 15%	Standard European mains connection
Mains supply fuse	1.6 A (F1.6A L250V)	Replace only with similar type
Power supply rating	3A total including battery charge 28V +/- 2V	
Maximum ripple current	200 mV	
Maximum battery size (M2 enclosure)	Two 12V 9Ah sealed lead acid	17Ah maximum battery size in M3 enclosure
Battery charge voltage	27.6V DC nominal (temperature compensated)	
Battery charge current	0.7A maximum	Modulated DC
Battery fuse	20mm, 3.15A glass	Replace only with similar type
Current draw in mains fail (after backlight off)	130 mA	Without network card or ancillary boards
Current draw in alarm condition	300 mA	Excluding sounders and loop sounders
Maximum current draw from batteries	3A	With main power source disconnected
Number of loops	1	
Zone indicators	16	Red LEDs via light guide
Software zones	500	Network wide
Device text assignment	40 characters per sub-address	Up to 800 sub-addresses
Aux 24V output	Fused at 500 mA with electronic fuse	200 mA maximum continuous load
Sounder outputs	Two at 21 to 28V DC fused at 1A with electronic fuse	Voltage reversing, programmable
Sounder end of line device	10K 5% 0.25W resistor	Supplied in terminals
Fault relay contact rating	5 to 30 V DC 1A maximum	Volt free changeover, programmable
Fire relay contact rating	5 to 30 V DC 1A maximum	Volt free changeover, programmable
Alarm relay contact rating	5 to 30 V DC 1A maximum	Volt free changeover, programmable
Maximum loop current	400 mA	
Loop Protocols	Apollo (S90, XP95, Discovery), Argus Vega, Hochiki ESP	Supports all devices
Remote control inputs types	Fault, Reset, Alert, Evacuate, Silence	All inputs programmable for any event type
Remote control input rating	Switched 0V via 50 ohms maximum resistance	
Serial I/O bus	RS485 multi-drop - 1200 metres maximum	Up to 512 additional program. Inputs/Outputs
Networking	RS485 fault tolerant ring	Up to 64 panels and repeaters, any or all peer to peer or master/slave
Network card current during mains fail	58 mA	
Event log	Up to 1000 events	Stored in non-volatile memory
Timekeeping	Real time clock with automatic daylight savings adjustment	March to October
Printer	ASCII, RS232, 19200, 8, N, 1	Optional 40 column thermal printer, (larger enclosure only)
PC/ Modem/ Graphics port	10 way connector compatible with Kentec download lead	RS232, 19200, 8, N, 1
PC configuration	Loop Explorer V4.60 onwards	Not compatible with older versions
Firmware	Flash memory	Can be updated on site
Display	240 x 64 pixel graphics LCD and high brightness LEDs	
Languages	All western and Cyrillic characters	Contact supplier for full, up to date list
Terminal capacity	2.5mm ² solid or stranded cable	
Cabling	FP200 or equivalent (maximum capacitance 1uF, maximum inductance 1mH)	
Operating temperature range	-5 to 45 degrees Celsius	
Construction	Powder coated 1.2 mm mild steel	Standard size
Size (M2 enclosure)	385 x 310 x 90 (mm)	Panels with printer or additional modules
Size (M3 enclosure)	385 x 520 x 110 (mm)	
Finish (Lid and box)	BS 00 A 05 mid grey fine texture	
Finish (controls plate and labels)	RAL 7047 light grey	As per Sigma CP/XT range
Cabinet lock	Common key	As per Sigma CP/XT range
Enable controls keyswitch	Common key	As per Sigma CP/XT range

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