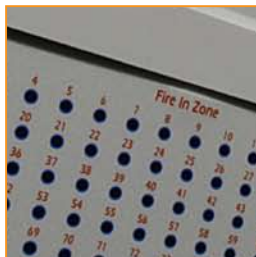
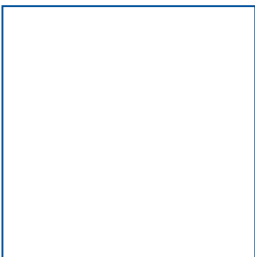
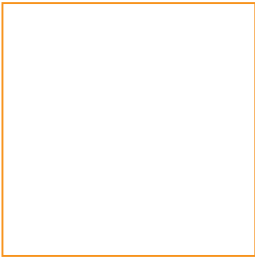


Kentec Electronics Ltd.



BS EN54-2 : 1998
BS EN54-4 : 1998
KM 73505

An introduction to.....



Syncro



Syncro Overview

The Syncro Multi Loop Analogue Addressable Fire Control Panel range from Kentec Electronics Limited offers a powerful and scalable solution for fire detection and alarm systems of all sizes.

With proven and mature software at its heart, the Syncro range benefits from many years of development and refinement to provide a fire alarm control panel range of outstanding robustness, versatility and flexibility.

Syncro multi-loop fire panels have a large clear display, context sensitive help screens, easy navigation menus, versatile configuration options and simple controls all enhanced by the power and flexibility that comes from compatibility with other components of the multi-loop Syncro system and peripherals.

In response to customer demand and to promote continuity in our product range, we have recently restyled the outer cabinet of the Syncro and Syncro Response to match our Sigma CP,XT, Syncro AS products and the Focus and View Repeaters.

Syncro fire panels fully support 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 four Amp power supply and temperature compensated battery charger provides ample power for the standard sounder outputs, loop powered sounders and fully loaded loops of devices.

Connectivity

Syncro fire panels connect seamlessly to Syncro AS fire panels or other Syncro multi-loop panels and repeaters via the fully fault tolerant and robust Syncro network. The network topology can be configured for either a fully secure "loop" or as an "open ended" network for replacing older systems and using existing cabling.

The Syncro range supports a selection of 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.

0, 16, 48 or 96 zonal LED indicators can be provided as standard and the panel will support up to 500 network wide software zones.

Powerful Software

The simple and intuitive Loop Explorer configuration utility has been refined and honed to produce an extremely powerful configuration tool capable of realising the largest and most complex fire alarm systems with ease.

The Guide graphics system or a modem for remote system interrogation by telephone lines may also be connected to Syncro 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 range.

Ease of Installation

The elegant and simple construction of the Syncro panel range with full mechanical protection of all internal electronics, ensures ease of installation and protection of the vital parts during installation. Housed in installer-friendly and attractively styled enclosures, Syncro fire panels combine compact and practical styling with powerful programming and connectivity to realise the largest of systems.



Additional Facilities

Optional I/O boards

Syncro panels can be supplied fitted with one of a range of I/O boards or a modem for remote interrogation via telephone lines.

Additional boards can be added externally up to a maximum of 32.



**Modem Module
K556P**



**16 Channel
I/O Board
K560**



**8 Way Relay
Extender Board
K547**



**6 Way Sounder
Extender Board
K546**



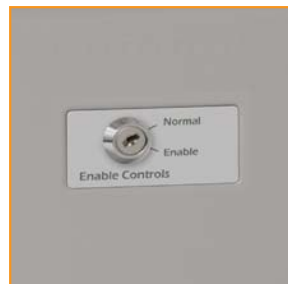
**4 Way Conventional
Detection Zone Board
K545**



NEW! **Restyled Enclosure**
Cabinet style & paint finish now matches Sigma CP/XT & Syncro AS ranges.

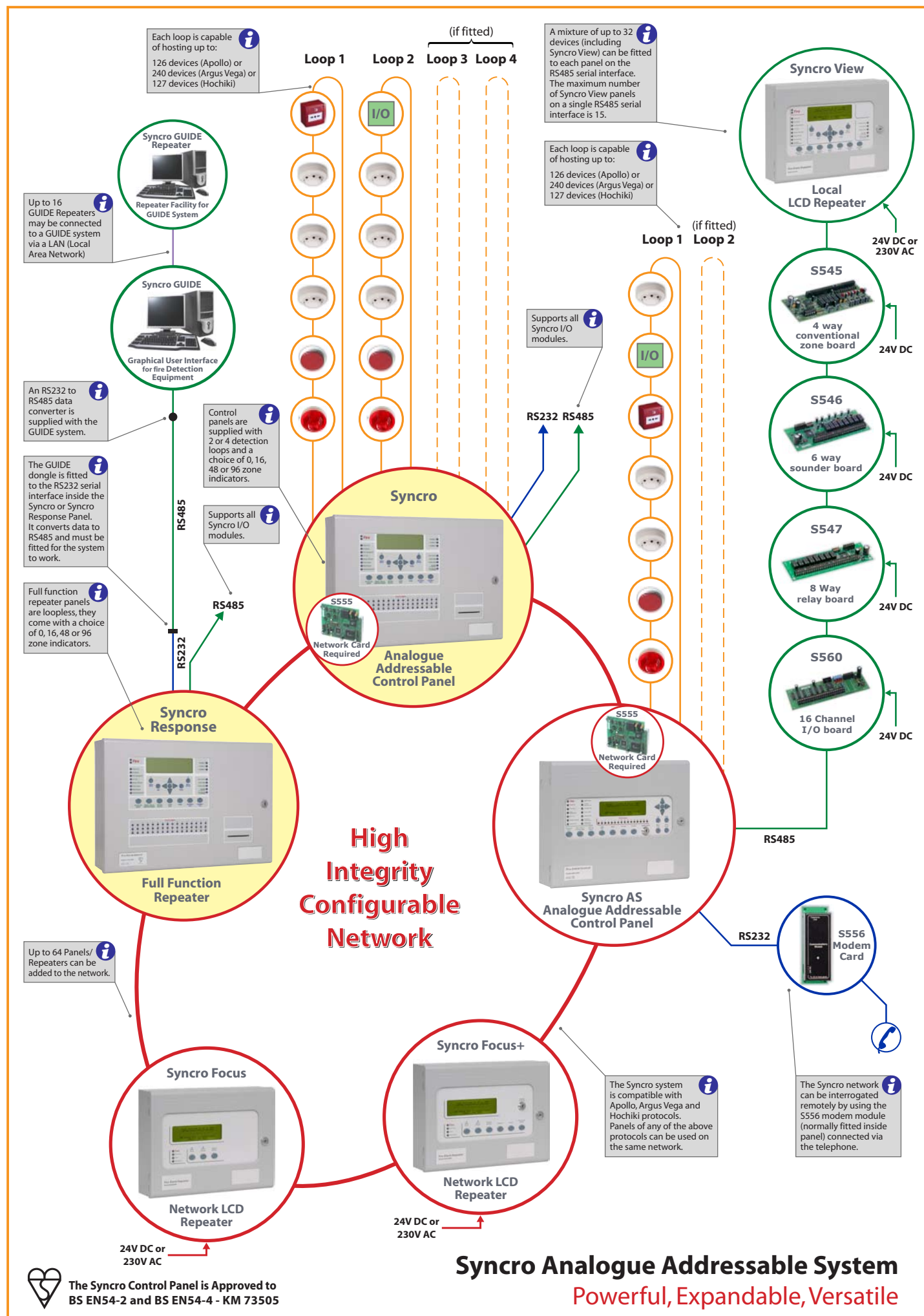


Optional Printer Module
Can be supplied with or retrofitted to any Syncro panel.



Optional Enable Keyswitch
Options with and without Enable Keyswitch available.

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 the features available on the Syncro control panel.

Feature	Description
Number of detection loops	2 or 4
Display	240 x 64 pixels graphical
Protocols	Apollo, Argus Vega or Hochiki
Aux. 24V output	500mA
Loop current	400mA
Programmable inputs	8 as standard
Programmable relays	5 as standard
Programmable front panel buttons	2 (function buttons)
Programmable front panel LEDs	3 (Aux LEDs)
Remote control input types	Intermittent sounders, Continuous sounders, Silence, Reset, Fault
Device text assignment	40 characters per sub-address
External 24V supply input	Dual inputs
Current available from PSU	4A
Sounder outputs	4 each fused at 1A, programmable
Serial ports	4 (Printer + Expansion I/O + PC + Network)
Number of fire zones	500, network wide
Zonal indicators	0,16,48 or 96
Event log	500 events
Printer	Option, thermal (ASCII, RS232, 1900, 8, N, 1)
PC, modem , graphics system port	Packet protocol available upon request (RS232, 19200, 8, N,1)
BS5839-1 compliant as standard	Yes
EN54-2 and EN54-4 certified	Yes
Lockable enclosure	Yes
Vandal resistant display	Yes
Multiple language support	Yes (including non-western characters)
Repeaters (on serial bus)	Up to 15 fully functional types
Repeaters (on serial network)	Up to 63 (requires network card in panel) Full function or display only types available
Programmable I/O modules on serial bus	Standard, up to 512 points
Network topologies	"ring" or optional "line"
3 year warranty	Yes
Network nodes	64
Easily removable equipment chassis	Yes
Compatible with modem	Yes
Compatible with Syncro GUIDE Graphics System	Yes

Syncro technical specifications chart.

Item	Electrical Rating	Comment
Mains supply	230V AC 50Hz +10% - 15%	Standard European mains connection
Mains supply fuse	2Amp (F2A t250V)	Replace only with similar type
Power supply rating	4 Amps total including battery charge 28V +/- 2V	
Maximum ripple current	200 millivolts	
Maximum battery size	Two 12V 12Ah sealed lead acid	Not supplied
Battery charge voltage	27.6V DC nominal (temperature compensated)	
Battery charge current	1A maximum	Modulated DC
Current draw in mains fail (after backlight off)	255 milliamps (2 loop) 355 milliamps (4 loop)	Without network card or ancillary boards
Current draw in alarm condition	540 milliamps (2 loop) 650 milliamps (4 loop)	Excluding sounders and loop sounders
Maximum current draw from batteries	4 Amps	With main power source disconnected
Number of loops	2 or 4	
Zone indicators	0, 16, 48 or 96	Red LEDs
Software zones	500	Network wide
Device text assignment	40 characters per sub-address	Up to 800 sub-addresses
Aux 24V output	Fused at 500 milliamps with electronic fuse	200 milliamps maximum continuous load
Sounder outputs	Four 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
Programmable relay contact rating	5 to 30 V DC 1A maximum	Volt free changeover, programmable
Maximum loop current	400 milliamps	
Loop Protocols	Apollo (S90, XP95, Discovery), Argus Vega, Hochiki ESP	Supports all devices
Remote control inputs types	Intermittent sounders, Reset, Alert, Continuous sounders, 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 programmable inputs/Outputs
Networking	RS485 fault tolerant ring or line (not fault tolerant)	Up to 64 panels and repeaters, any or all peer to peer or master/slave
Network card current during mains fail	58 milliamps	
Event log	Up to 500 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
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 millimetre mild steel	
Size (surface)	500 X 355 X 117 millimetres	Standard size
Size (flush)	506 X 361 X 130 millimetres	Standard size
Finish (Lid and box)	BS 00 A 05 mid grey fine texture	
Finish (Product/Logo labels)	RAL 7047 light grey	
Cabinet lock	Common key	
Enable controls keyswitch	Common key	

Units 25-27 Fawkes Avenue Questor Dartford Kent DA1 1JQ United Kingdom
 www.kentec.co.uk sales@kentec.co.uk Tel: +44(0)1322 222121 Fax: +44(0)1322 291794

