



Kentec Electronics Ltd.

Units 25-27 Fawkes Avenue, Questor, Dartford, Kent. DA1 1JQ
Tel: 01322 222121 Fax: 01322 291794
E-mail: techsupport@kentec.co.uk Web: www.kentec.co.uk

Software Bulletin

SB 1018

BSI Approved Syncro Version 5.20EN54 - Release information

Following the successful approval of the Kentec Syncro range of control panels, all Kitemarked Syncro panels produced from July 2005 are installed with operating system version 5.20 EN54

In order to gain compliance certification, this version has the following amendments;

Access Level 2 Menu	Details of changes
Timed disablements	It is no longer possible to set timed disablements at access level 2. This option is only available at Access Level 3 (Engineering Disablements)
Disable Immediate Output Response	When outputs are configured with 1 st and 2 nd stage output delays, these will not operate unless the Immediate Output Response is disabled at access level 2, using this menu option. The General Disablement indicator will be illuminated. If no outputs are configured with delays, it will not be possible to select this option.
Disable Outputs	At access level 2, only the outputs defined in EN54-2 may be disabled. These include the Fire contact, Alarm contact, Fire Routing output, Extinguishant, Fault contact and Monitored Auxiliary Output (formally Fault Routing Output).
View Devices	The device "sub type" reference is no longer shown for devices, apart from Input / Output modules. This avoids name duplication in the device type, such as "multisensor sensor".
View Devices (Apollo Discovery)	When this menu option is used to view Apollo Discovery devices, the mode setting is also shown. This mode setting is the Apollo sensitivity mode (1 - 5) for the device during the particular day / night mode selection.
Test Zones	When a zone is put into test mode, the test mode profile is now limited to only allow the sounders to either operate or not. It is not possible to specify the operation of loop or panel outputs in test mode – this will no longer operate.
Test Zones – View & Restore	It is now possible to view zones in test mode and to enable each one in turn, by simply pressing the "Enter" button. This brings the Test Zone menu in line with the Disablement menu.

Access Level 3 Menu	Details of changes
Edit Configuration / Edit I/O / Edit Remote I/O	There is a new menu option to allow the editing of inputs / outputs for boards fitted on the RS485 communications bus on the control panel
Edit Configuration – Edit Inputs	It is no longer possible to configure delays to inputs from the panel menu
Engineering Disablesments – Timed Disablesments	This menu option allows timed disablesments to be selected. This is the same menu as was previously available at access level 2 on earlier panels
Loop Data Test	When viewing the loop data in this menu, there is now an additional line of information to display the loop current and maximum loop current. This requires compatible loop microprocessor firmware to allow the loop current to be displayed
Add device menu option	The Apollo multi criteria monitor has been removed from the device list, as this device was never manufactured.
Edit device menu option	The Apollo Discovery devices Day / Night sensitivity settings are now configurable as Mode 1 – Mode 5 only. It is not possible to adjust the fire threshold based upon analogue value

Panel Operation Changes	Details of changes
Disable Zones	All detection devices and call points in the disabled zone will be disabled. All output devices (sounders and relays) will continue to operate. When devices in a disabled zone are disconnected or in fault, this will no longer be reported for the duration that the zone is disabled.
Audible indication of Disablesments	Whenever a disablement action is performed, there is no audible confirmation signal. The panel buzzer used to sound for 5 seconds on earlier panels.
Faults from Disabled devices or I/O	Device faults and disconnected faults are no longer reported whilst the devices (or zones) are disabled.
Test Zone Operation	When a zone is in test mode, all devices (including call points) will cause the panel to go to fire for 3 seconds, then reset. If the zone is configured to operate the sounders, then only these will operate for the duration that the panel is in fire. The zone in test may only be cancelled by manually going into the Access level 2 menu – it is no longer cleared automatically by a fire in another zone or by a 15 minute countdown timer
Test Zone – Multiple Activation Delay	When a device is operated in a zone in test, that same device will not go back into a fire unless its analogue value exceeds the fire threshold for 20 seconds. This avoids multiple activations from the same device whilst the test smoke dissipates. New devices in the same zone in test mode will operate as soon as their analogue value exceeds the fire threshold.
Test Zone – Pre-Alarm Response	If a device goes to a pre-alarm condition in a zone in test, then the zone will automatically reset in the same manner as for the Fire condition
Test Zone – Activation of a Zone in Test whilst the panel is in a Fire condition from another zone	If there is a fire in a zone that is not in test mode, then the subsequent display of fire activations in zones in test mode will be inhibited. This is required to avoid the incorrect interpretation of the fire event.
Faults from a Zone in Test Mode	Device faults and disconnected faults are no longer reported for devices in a zone for the duration that the zone is in test mode.

Panel Operation Changes	Details of changes
Monitored Panel Outputs – Latching Faults	All faults on monitored panel outputs will latch and require the panel Reset button to be operated to clear the fault condition. This is necessary to ensure that the fault event for monitored panel outputs in fault continues to be shown whilst they activated (and therefore not in fault monitoring mode).
Multiple Fire Events from different zones	When there is a fire from multiple zones, the first zone in fire is indicated on the top of the LCD screen and the most current zone at the bottom of the screen. The more fires button is used to scroll between other zones in fire.
Multiple Fire Events from different zones – most recent zone in fire	When multiple zones are in fire, the summary line at the top of the LCD will always show the most recent zone in alarm as well as the total number of zones in alarm.
Multiple Fire Events from a single zone	When there are multiple fire events from a single zone, only the first event for that zone will be reported and displayed in the panel LCD. Subsequent activations from other points will not be automatically displayed in the panel LCD. To view additional points in alarm, it is necessary to use the “More Events” button to select the “More points in Fire” menu option.
Multiple Fire Events from a single Zone – output operation	When a detection point in a zone is set to fire, the panel will process this event and operate outputs in accordance with the panel configuration (either by cause and effect or default ringing pattern). If the sounders are acknowledged but the panel not reset, then any subsequent fire in the same detection zone will not cause the sounders or panel buzzer to restart. Only events from different zones will cause the resounding of sounders. This also applies for cause and effect switching of outputs
More Events - More Zones in Test	When multiple zones are selected in test mode, the More Events screen will now show “More Zones in Test”, with the total number of zones in test mode. This can be used to view all zones selected in test mode.
More Events – More Devices in Fire	As the display of fires is shown by zone on the panel display, a method is required to view additional detection devices that may go to fire in zones already in fire. The More Events screen now has a “More Devices in Fire” menu option to permit this interrogation.
System Fault indication	The Syncro panel uses multiple processors to perform various tasks in the fire system. If any of these processors either fails or re-initialises, then the panel will display a “System Fault” message in the LCD and the General Fault and System fault indicators will be illuminated. The internal buzzer will be sounding. It will be necessary to press the Reset button on the front of the panel to clear this fault message.
System Fault – Memory contents	A system fault is reported for any memory contents errors (checksum errors) on any microprocessor on the system. This includes loop microprocessors, display indication control microprocessor and common equipment microprocessors.
Memory write enable	It is not possible to make any amendments to the site configuration of the Syncro control panel without first operating a new “Write Enable” switch located on the Syncro display card. If any of the Access Level 3 “Edit Configuration” menu options are attempted, the display will inform the user that the write enable switch is off. This message will automatically clear after several seconds or by pressing the Exit button. It will not be possible to transfer configuration files across the Syncro network to these panels without first operating the memory write enable switch.
Buzzer operation during initialisation	To meet indication requirements of a system fault, the panel buzzer will default to the audible mode during the panel initialisation process and will with off when the panel has determined the system to be fault free.

Other firmware changes	Details of changes
Flashing indications	All flashing indications have an increased flash rate to 1Hz (0.5 seconds on / 0.5 seconds off). The panel sounder pulse rate still remains at 1 second on / 1 second off.
LCD Backlight revised operation	The panel LCD backlight continues to be switched on all the time that the panel is supplied with power. In the event of a mains fault or charger fault, this backlight will remain on for 1 hour, then will extinguish. Any subsequent events or panel button operations will cause the panel backlight to be illuminated for 25 seconds since the last button activation
Apollo Bad Data counter	Each device has a bad data counter, which is incremented each time an invalid message is received from a detection device. If a valid response from a device is returned, this counter is reset to zero. On previous version panels, the counter was decremented for each valid read.
Apollo Discovery mode change	Apollo Discovery devices subjected to mode changes during day / night transitions would report an intermittent error during the transition. This is resolved in this version

Upgrade information and Network compatibility

If any panel with version 5.20-EN54 is installed on a network containing older firmware panels, then a notification message will be reported on all panels with the V5.20-EN54 firmware installed.

To allow V5.20 EN54 panels to be connected to a network with older panels with Issue 10 (or older) display hardware, it will be necessary to upgrade the older panels to a special firmware version.

This special firmware version will allow the features of the EN54 approved panels but will not attempt to monitor the write enable switch or report an error in the absence of this switch.

NOTE – Under no circumstances should any Kitemarked approved control panel firmware be changed. This will invalidate the approval certification.

Version 5.20 panels must be configured using Loop Explorer **Version 4.0 or later**.

Older versions of Loop Explorer are not compatible with any panels installed with V5.0 or later operating system.

(For full details of the Syncro EN panel network compatibility refer to Software Bulletin SB1019)

Should you have any questions on this subject, please feel free to contact a member of the Technical Support department on +44 (0) 1322 222121.

**Kevin Mears
Technical Support Manager
Kentec Electronics Ltd**