

GX32 Battery Powered Alarm System

Installation

It is assumed that installers are familiar with installing cables and fixing the various components etc.. The system is battery powered and presents no electrical risk to either installers or users. A twin cable should be run from the master GX32CIE unit to the first GX32MCP callpoint/sounder and on to the second GX32MCP and so on to the last unit ie. the End Of Line E.O.L. callpoint. The back boxes of all units should all be fitted at a height of approx 1.2m AFL, cables should be dressed in and prepared.

Start connecting at the remote GX32MCP E.O.L. unit and work back towards the control panel. Ensure the PP3 battery is not yet connected. Connect the Amber and Blue of the twin cable to PA and PB respectively. Fit a link in the terminals marked EOL in this unit. Insert the black plastic test key in to the underside of the call point and then connect the battery. The unit should bleep. This will be repeated every 10 secs. Remove the test key, and clip up the call point front cover to clear the flexible element, the sounder will give a double whoop within 10 secs. to confirm correct installation. Secure the enclosure lid.

At the next unit connect the Amber and Blue of the cable from the End of Line unit to EA and EB respectively of this unit. Connect the Amber and Blue of the cable leading towards the control panel to PA and PB respectively. Insert the black plastic test key in to the underside of the call point and then connect the battery. Reassemble the unit as above and check for the double whoop on this unit.

If on removing the test key a long tone followed by double bleeps every 5 secs. is heard then there is a problem on the previous section(s). This could be: a short or open circuit on the cable, a reverse connection, no battery in the previous unit or no EOL link fitted in the E.O.L. unit

Repeat the above procedure at each unit. Do NOT start to connect the next call point until you have heard the double whoop confirmation. At the control panel connect Amber and Blue to EA and EB respectively. Ensure that the keyswitch is in the RESTART position. Connect the 6 x AA batteries (observe the correct polarity). The green system healthy LED should start to flash within 10 - 15 secs.. Fit the control panel front onto its back box. If the green LED does not flash check the batteries and cable connections in the control and the first call point.

Testing the system

Turn the keyswitch to TEST MODE. The sounder will give a low pitch bleep every 5 secs. Insert the black test key in the underside of the call point. Only the sounder of the GX32CIE (the main control) will sound. Remove the test key. While still in TEST MODE visit each call point in turn. Inserting the black test key sounds only the sounder of the call point being tested. When all call points have been tested switch the control to the RESTART position.

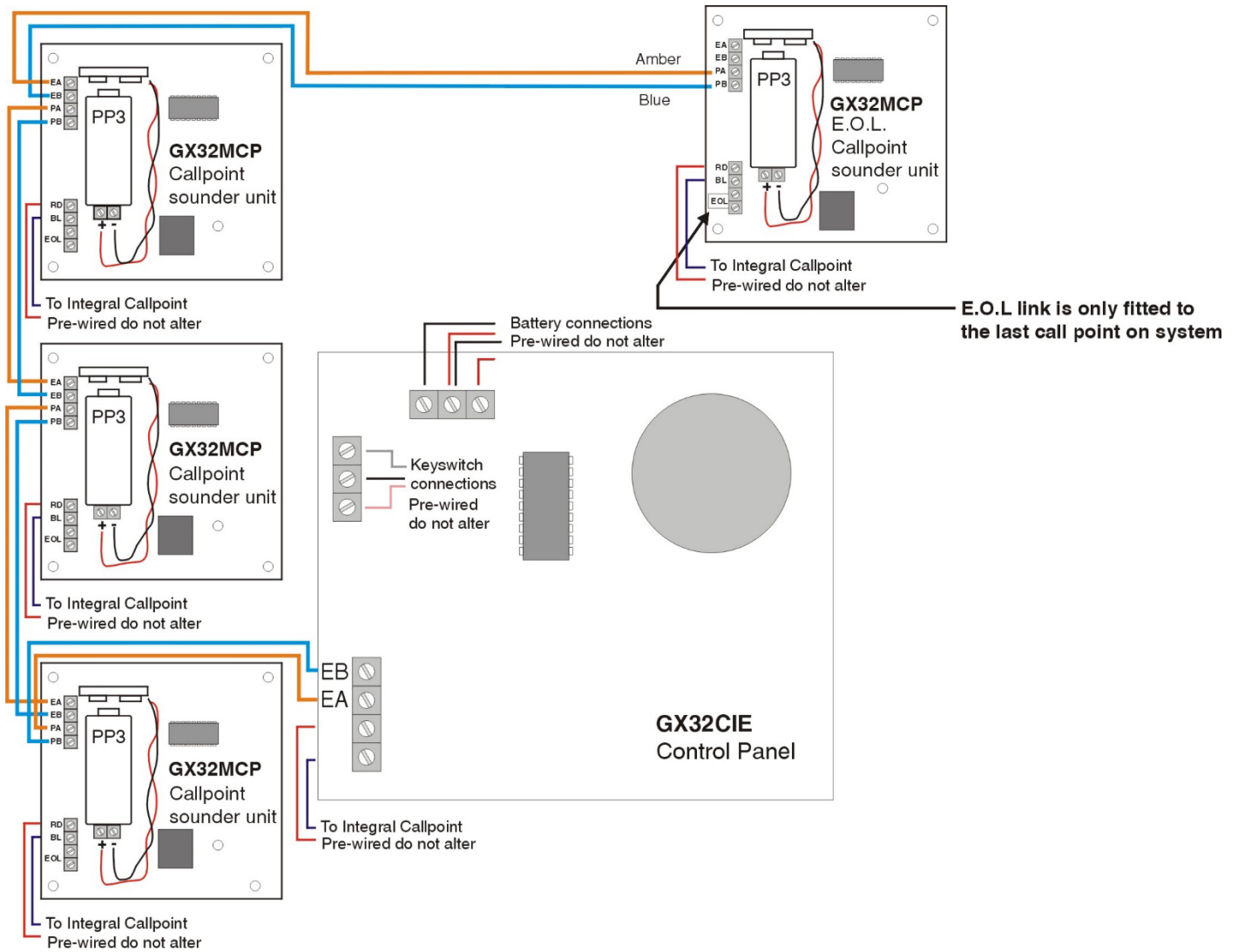
Fault Finding

Fault indication is given audibly and visually at the GX32CIE control and can be caused by exhausted or partially exhausted batteries, cable connections or cable damage. If fault indication occurs on installation or on extending the system it could be that the end of line link is not fitted or two have been fitted.

Switch to TEST MODE, any call point with a partially exhausted battery will give a single high pitched bleep at 5 sec. intervals. Remove the callpoint and replace the battery while in TEST MODE. All Callpoint and Control panel batteries should be changed.

A double high pitched bleep every 5 secs. indicates that there is a cable fault between the bleeping unit and the next unit towards the end of line. This could also indicate a totally exhausted battery in the next unit. Any battery replacements or cabling alterations should be done with the keyswitch in TEST MODE otherwise it will be necessary to follow the installation procedure above.

If only part of the system is sounding as a fire condition and it is not possible to silence it from the control this would indicate that a cable has been damaged and it is not possible for the silence signal to be received. In this case it will be necessary to remove the batteries from the sounding call points and follow the installation procedure above.



GX32CIE is available in kit form but individual components can be purchased as required. The kit and individual items are supplied with all required batteries and fixing screws.

GX32KIT400 Kit includes

- 1 x GX32CIE Control Panel
- 4 x GX32MCP Callpoint / sounders
- 1 x GX32CAB/100 100m twin cable
- 4 x CABCLIP5RBK 100 cable clips

GX32 Fire Alarm System

The GX32 fire alarm system has been designed to meet the requirements of the Work Place regulations for electrically powered fire alarm systems.

Because each Callpoint/Sounder has its own battery and comprehensive cable monitoring between all units, the system sections will continue to function individually even if the cables are cut or short-circuited. For this reason more economical cable can be used than is possible with conventional fire alarm systems.

Battery life is approximately 12 months but will depend upon usage. A battery fault monitor is incorporated in each Callpoint/Sounder and the Control Panel.

Up to 32 GX32MCP Callpoint/Sounders can be connected to a GX32CIE. The system must be connected as shown in the accompanying wiring diagram. It is NOT possible to use spur or star wiring. The polarity of the wiring is important.

A battery fault in any Callpoint/Sounder will be reported as a fault to the GX32CIE.

Specifications	GX32CIE Control Panel	GX32MCP Callpoint / Sounder
Enclosure	The unit is housed in a plastic enclosure. IP51 Dimensions 156 x 120 x (55-65) mm. The control and indication:- Keyswitch for TEST MODE, SILENCE and RESTART Manual call point (KAC Type) Twin Red FIRE LEDs Single Amber FAULT LED Single Green SYSTEM HEALTHY LED (Flashing) Integral audible warning device 80db at 1m	The unit is housed in a red plastic enclosure. IP51 (KAC World Series Callpoint) Dimensions 90 x 90 x 65 (mm)
Connections	Two way I/P O/P terminals for connection to first GX32MCP. 1.0sqmm	4 way terminal 1.0sqmm. Two for cable from direction of panel, two for cable leading towards end of line. 2 way terminal for link to select end of line EOL
Control and Indication		Breakglass (or deformable element) to active alarm Plastic reset key Piezo sounder approx 2Khz pulsed 96 db at 1m Facility to select end of line unit
Power Supply	6 x AA alkaline cells (supplied)	1 x PP3 Alkaline battery.
Monitoring	Battery low monitor gives audible warning (two beeps every 15 secs.) and visual FAULT LED flashing (1 sec. on 15 secs. off) Green SYSTEM HEALTHY LED ceases to flash. Cable short circuited gives audible warning (two beeps every 15 secs.) and visual FAULT LED flashing (1 sec. on 15 secs. off) Green SYSTEM HEALTHY LED ceases to flash. Cable severed gives audible warning (two beeps every 15 secs.) and visual FAULT LED flashing (1 sec. on 15 secs. off) Green SYSTEM HEALTHY LED ceases to flash. Callpoint/sounder battery low gives both audible warning (two beeps every 15 secs.) and visual FAULT LED flashing (1 sec. on 15 secs. off) Green SYSTEM HEALTHY LED ceases to flash. If the keyswitch is inadvertently left in the SILENCE position an audible (rapid beeps) and visual FAULT LED warning is given. Green SYSTEM HEALTHY LED ceases to flash. If the keyswitch is inadvertently left in the TEST position an audible warning is given by a single bleep every 5 secs. and the green SYSTEM HEALTHY LED ceases to flash	Battery low monitoring gives audible and visual warning at the GX32CIE. Turning GX32CIE keyswitch to TEST MODE enable location of low battery to be determined by bleeping the sounder in the defective unit. Cable link towards end of line is monitored. If cut or severed this is relayed to GX32CIE to give audible and visual indication. Turning GX32CIE keyswitch to TEST MODE enables the fault to be located by bleeping the sounder in the last serviceable unit. Cable from GX32CIE is constantly monitored for FIRE, SILENCE and TEST MODE signals.

Specifications – GX32CAB/100 Flame Retardant Cable

	100 metres of 2 core Flame retardant cable fully compliant to IEC 60332-3-24 regulations designed to resist the spread of fire vertically within a building.
Operating Temperature	-20 to +85 degrees C High quality cable with installer friendly characteristics, pliable, easy to strip and make off connections.



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