Multiguard Series

The MULTIGUARD is a general purpose six zone annunciator. The enclosure design is such that virtually any system size can be met by stacking units together.

To cater for the many different requirements of the emergency alarm market the Multiguard is supplied in a number of different guises, each of which offers a remarkable degree of flexibility.

Possible uses for the Multiguard are Perimeter Protection Systems, Personal Attack Monitoring, Fire Exit Door Monitoring (e.g. EXITGUARDs) and Nurse Call Systems. There are also many other applications in the field of process monitoring such as Deep Freeze Alarms.

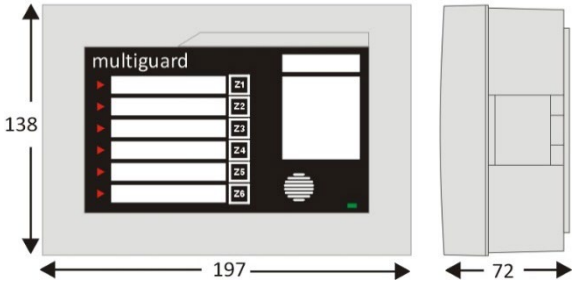
Where applicable zone isolation is achieved by throwing the keyswitch to a preselect position, selecting the zones to be isolated with the individual pushbuttons Z1 to Z6 then restoring the keyswitch to its normal position.

If your requirements cannot be met by standard six zone indicators, we can design and manufacture indicators of almost any size, shape and appearance based upon MULTIGUARD technology. This can even be mimic diagrammatic panels for at-a-glance indication.

Features and Benefits

- Six zone alarm annunciator panel
- Options for individual or global silence & reset
- Custom designed case
- Increase system size by stacking multiple enclosures together
- Look-a-like repeaters available
- Unique labelling system
- Systems operate on 12vdc or Integral PSU & Battery depending on model
- Integral piezo sounder 65db @1m
- Open or closed-circuit inputs
- DPCO global output relay
- LED test option
- Zone isolate by keyswitch, models MG216010 & MG216110
- Output interface facilities
- Perimeter protection systems
- UKCA and CE marked, ROHS compliant
- Manufactured in the Uk
- Dimensions 197 x 138 x 72mm

Dimensions mm



MG212 Series

Global silence and reset, extender and repeaters available.



MG216 Series

Individual silence and reset, extenders and repeaters available.





MG311 Nurse Call Series

Global silence, individual reset, extender and repeater available.



Hoyles Electronic Developments Ltd
Sandwash Close, Rainford, St Helens, WA11 8LY, UK
www.hoyles.com
sales@hoyles.com
+ 44 (0) 1744 886600

Multiguard Series

Part Code	Description	No of Zones	Silence Button	Reset Button	Zone Isolate	Integral PSU	Battery	Keyswitch	Output Relay	Lamp Test
MG212100	**Master**	6	Global	Global	No	12vdc 200ma	12v 0.8Ahr	No	Global DPCO	No
MG212000	**Extender**	6	Global	Global	No	No	No	No	Global DPCO	No
MG222000	**Repeater for MG212/MG311**	6	Global	Global	No	No	No	No	No	Yes
MG216100	**Master**	6	1 per zone		No	12vdc 200ma	12v 0.8Ahr	No	Global DPCO	Yes
MG216000	**Extender**	6	1 per zone		No	No	No	No	Global DPCO	Yes
MG216110	**Master**	6	1 per zone		Keyswitch preselect	12vdc 200ma	12v 0.8Ahr	Yes	Global DPCO	Yes
MG216010	**Extender**	6	1 per zone		Keyswitch preselect	No	No	No	Global DPCO	Yes
MG226000	**Repeater for MG216**	6	1 per zone		No	No	No	No	No	Yes
MG311100	**Nurse Call Master**	6	Global	At Remote	No	12vdc 200ma	12v 0.8Ahr	No	Global DPCO	No
MG311000	**Nurse Call Extender**	6	Global	At Remote	No	No	No	No	Global DPCO	No
MG02000P	**LED Driver**	6+6+2	N/A	N/A	N/A	No	No	No	1 per zone	N/A
MG030000	**Sounder Driver**	6	N/A	N/A	N/A	No	No	No	1 per zone	N/A

MG222000, MG226000 Repeaters

It is often necessary to repeat indications at remote locations. Each Multiguard master is equipped with a serial output to enable data to be sent to a number of repeaters simultaneously. Each Multiguard master with an integral power supply can support up to three repeaters. If more than three repeat locations are needed then an external power supply should be used at the master. Because data is sent out serially to the repeaters a reduced number of cable cores are needed. If indication only is required with no control functions then a five core cable will suffice (an extra 3 cores are needed for each block of six zones) If control functions are used then extra cores will be required, (consult our technical department for details).

Multiguard repeaters are identical in appearance and user functions to master units. Repeaters can be fitted with keyswitches in the same way as master units for isolation or other purposes.

MULTIGUARD Options

A keyswitch MG000010 can be added to any Multiguard not already fitted with one. The keyswitch is a two position with double pole changeover contacts. If a keyswitch is used for isolation purposes then only the second pole is available for an alternative use. This is obviously restricted to functions that are coincidental with isolation.

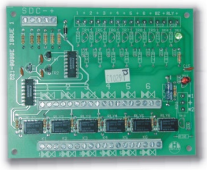




Two interface cards are available to enable Multiguard annunciators to drive external equipment.
The MG020000 uses serial data from a master unit to provide up to 16 outputs capable of switching up to 500ma per zone (subject to psu limit). Six outputs follow the annunciator LEDs. Six further outputs switch on alarm condition and restore on reset. Two outputs follow the integral sounder and global relay. Two outputs are not nominated. These cards will fit into the Multiguard back box as shown.

Hoyles Electronic Developments Ltd
Sandwash Close, Rainford, St Helens, WA11 8LY, UK
www.hoyles.com
sales@hoyles.com
+ 44 (0) 1744 886600

Multiguard Series



The MG030000 takes the serial data from a master unit to provide six relay outputs with voltage free DPCO contacts (1A/30vdc resistive). The activation of these relay outputs is dependant upon the software configuration of the master unit. These cards are often used to interface with CCTV multiplexers. The cards must be housed separately. Power requirement 12vdc 70ma. Dimensions 142 x 110 x 15 (mm).

MG311000 Nurse Call annunciators - The principle of operation is similar to the Multiguard general purpose annunciators. There is a SILENCE button F1 but no reset button or isolate facilities are fitted. Integral power supplies are NOT usually fitted to these versions as extra power is needed for call points and overdoor lights etc...

The control logic is non-latching. When a call is made an audible warning is given by an integral piezo sounder and the relevant zone LED flashes. The sounder can be silenced at the panel but must be reset at the call point.

Nurse call annunciators have facilities for Late Attendance indication. When a late attendance condition is generated the Multiguard emits an interrupted pulsed tone accompanied by an interrupted flashing LED for the relevant zone. Similar but continuous pulsed signals are used for Emergency Re-call. Signals are graded - late attendance takes priority over standard calls and emergency re-call take priority over late attendance. Manual and Electronic Call Points can be used on the same installation. However, late attendance and emergency re-call are only possible with electronic call points.



Nurse Call Items - S1760PR is a manual latching call point with re-assurance LED's. Pressing the button generates the call, pressing again resets it. The latching button can also be used to illuminate an overdoor indicator (see below). It is designed for either surface or flush mounting on a standard single gang electrical box.



The **S1663P** is an advanced electronic call point capable of standard and emergency recall. It also generates a late attendance signal. Calls are also reset at these points. Pillow Pushes or Ceiling Pull-Cords may be connected to. Electronic Call Points. When a call is generated a late attendance timer is activated. If the call is not attended to and reset within a predetermined period (adjustable on installation at each call point between 30 seconds and 21/2 minutes) a late attendance alarm is generated at the panel. An emergency re-call can be generated at any time by pressing both the reassurance LED and the re-call button simultaneously at the call point. An output is available from the call point for overdoor or corridor indicators.



The **S1600** ceiling mounted pull cord is a non-latching device with hi-brightness re-assurance LED. It can only be used with the S1663P electronic call point as part of a Multiguard nurse call system.



The **S1631** pillow push is supplied with 2m of cable. A a non-latching device with a normally open contact that closes when pressed. It can only be used with an S1663P electronic call point as part of a Multiguard nurse call system.



S1736PR is an overdoor or corridor indicator. When used in a Multiguard nurse call system it derives its power From either a manual or electronic call point. It is designed for either surface or flush mounting on a standard single gang electrical box.



The **EXITGUARD 200 Series** uses a nine-digit keypad for both control and programming. The tone of the high power integral alarm can be selected to distinguish it from other alarms. The alarm can be silenced and reset using a four-digit code or the EXITGUARD can re-arm automatically after a pre-set delay once the door has been closed. Separate Door Open Too Long (DOTL) delays can be set for Code Reset and Auto Reset modes. There is also a Bleep In Off option and Chime facility.

The following 100 series Exitguards are compatible with the Multiguard range, see below. (12vdc and mains versions only).

Exitguard Range







Hoyles Electronic Developments Ltd
Sandwash Close, Rainford, St Helens, WA11 8LY, UK
www.hoyles.com
sales@hoyles.com
+ 44 (0) 1744 886600