Data and installation

Vigilon Repeat panel (EN/BS)

VIG-RPT-72

GENT by Honeywell

The loop repeat panel duplicates all of the control panel indications and the essential controls.

The repeat panel has its own mains derived power supply with battery for standby power in the event of mains supply failure. A lockable front door prevents unauthorised access to fire alarm controls but allows all of the indicators to be seen. The panel is designed for semi-flush or surface mounting and facilitates both rear and top cable entry points.

This repeat panel can be installed on a loop circuit of an EN or BS Vigilon fire detection and alarm system. It can be sited near an entry or exit point of a building and fit in with the loop cable routing.

Compatibility

The repeat panel is compatible with system control panel having card and software below:

CARD	Control Panel Software EN54	Control Panel Software BS
Shorter cards (Repeat panel with Fire routing)		
MCC/MCB	≥ 4.53	-
LPC	≥ 4.48	-
Shorter cards		
MCC	≥ V4.11	-
MCB	≥ V4.21	-
Legacy longer cards		
LCC	≥ V4.00	≥ 3.42
LPC	≥ V4.19	≥ 3.90

≥ means equal to or greater than

Technical Data

Panel dimensions	height 403mm, width 338mm, depth 101mm
Weight	6.75Kg without battery
Storage temperature	-10°C to +55ºC
Operating temperature	0°C to +45ºC
Relative humidity (Non condensing)	Up to 90% temperature +5°C to +45°C
Battery	12V 7Ah sealed lead acid (2.25Kg)
Mains operating voltage Rated Current	230V -15% +10% 50/60Hz 0.2A
Emission	BS EN61000-6-3 : 2001
Immunity	BS EN50130-4 : 1996 : Part 4
LVD	BS EN 60950-2006
Ingress protection	IP31 (estimated)
Colour	Door - Pantone 422 Back box - Graphite Grey (RAL 7024)
Controls (with door closed) Access level 1	Next and Previous buttons operable during fire condition only.
Control buttons (with door open) Access level 2	Sound Alarms, Silence Alarms, Reset Fire, Cancel Fault Buzzer, Verify, F1-F4, Menu On/Off and U1-U4.
Indicators	Fire, Verify, Power, Fault, Power Fault, System Fault, Delay and CB253/254. ***EN panel only:*** Sounder, Sounder, Delay, Disablement, Test, plus Active and Fault/Dis *for fire alarm routing* and 32-Fire Zone LEDs. ***BS panel only:*** Commission and Warning. ***Display:*** 8 lines 40 characters per line back-lit LCD.
Loop connection	3-way connection to a loop circuit
EN54-17 data Fire detection and fire alarm system short circuit isolators	V_{max} 42V, V_{nom} 40V V_{min} 24V, $V_{SO\ max}$ 16V $V_{SO\ min}$ 8V, $I_{C\ max}$ 0.4A $I_{S\ max}$ 1A, $I_{L\ max}$ 20µA $Z_{C\ max}$ 0.1Ω

Installation

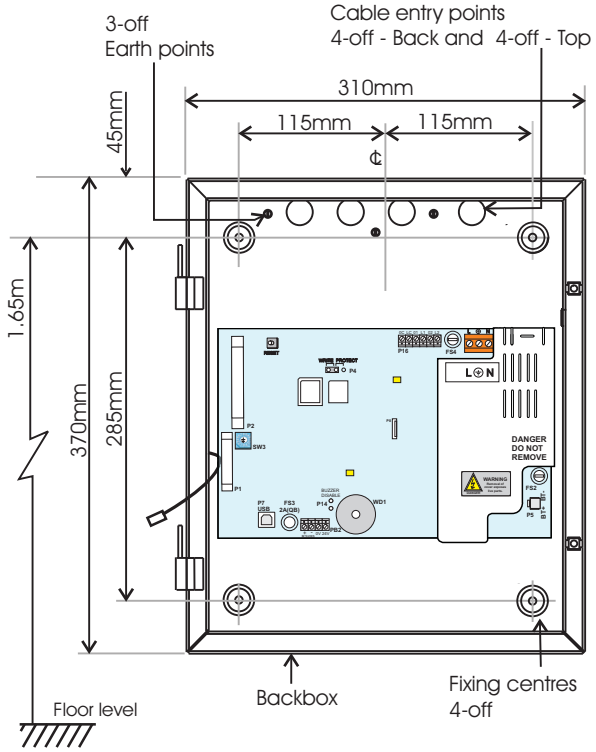
The Repeat Panel Set consists of:

	Parts	Qty
①	Backbox assembly	1
②	Outer door assembly	1
③	Inner door assembly (with membrane labels for BS panel)	1
④	20 Way ribbon cable	1
⑤	40 Way ribbon cable	1
⑥	Spares pack [Battery lead, Link wire (not used), 1 x 2A Fuse 20mm x 5mm QB, 2 x 3.15A Fuse 20mm x 5mm AB ceramic]	1
⑦	Battery 12V 7Ahr	1

Fuses on the Master Repeat Card

Fuse	Rating
FS4	3.15A AS 20mm x 5mm
FS2	3.15A AS 20mm x 5mm
FS3	2A QB 20mm x 5mm

Back box mounting



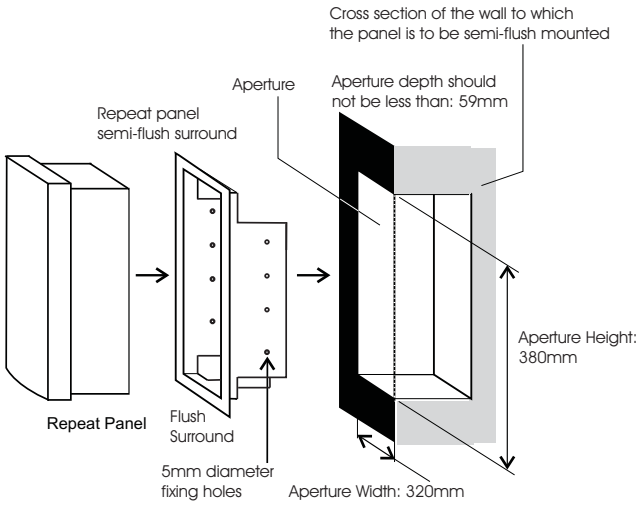
a Find the Repeat panel Back box ① package and remove the temporary cover.

b Secure the back box to a wall using suitable fixings. If the backbox is to be semi-flushed then use the optional semi-flush surround.

c Terminate the cable at the entry point leaving **400mm** tail wire length.

If mains supply cable ends are not required to be connected then ensure the ends are insulated for safety.

d Refit the temporary cover to protect the panel until all building work is complete.



Doors, Cables and Power up

The doors and cables can be installed after the building work has finished.

a Remove the protective cover from the backbox.

b Fit the inner door ③ to the panel enclosure remembering to connect the earth lead from the backbox to the inner door. Fit the outer moulded door ② to the backbox.

c Wiring the panel:

Ensure the mains supply is completely powered down before wiring the mains cable ends.

- connect the mains cable to terminal block P9 on the Master Repeat Card.
- fit battery lead ⑥ supplied in the spares to connector P5 on Master Repeat Card.
- connect the loop cables to terminal block P16 on the Master Repeat Card.
- connect the 40 way ribbon cable ⑤ to the Master Repeat Card connector P2 and the other end to Display Key Card top right edge connector - P1.
- connect the 20 way ribbon cable ④ to the Master Repeat Card connector P1 and the other end to Display Key Card top right edge connector - P6.

d Power-up the panel by switching ON the mains supply and then connect the battery leads to the battery and note:

- all the LEDs on the panel are lit for a short duration and a power up message displayed.
- the local buzzer sounds
- the display reads: **Main panel is off Line**
- the **Fault** and **System Fault** LEDs are lit.

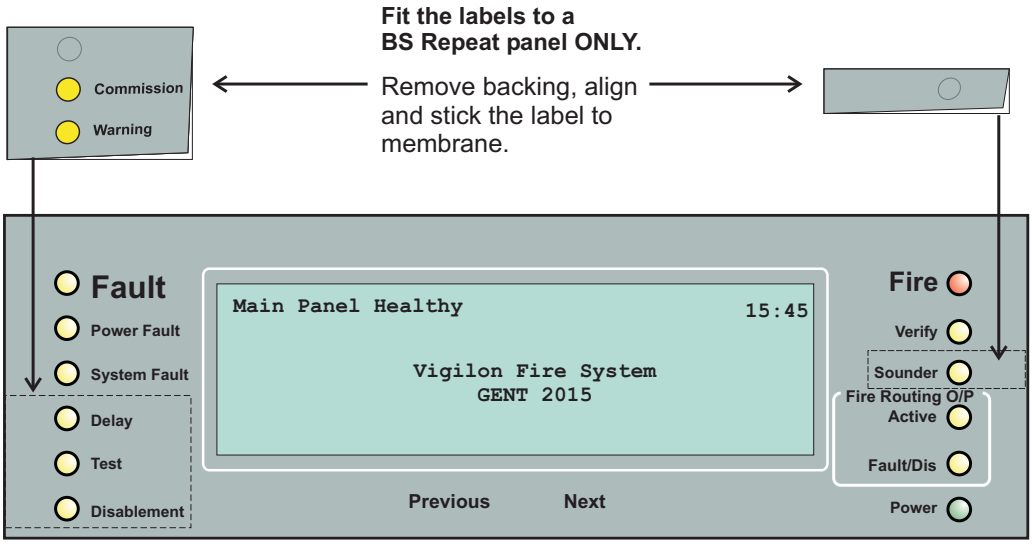
Loop COM
Loop IN
Loop OUT
From Mains fused spur
①
②③ Repeat panel inner and outer doors not shown
⑤ 40-way ribbon to DKC
20-way ribbon to DKC ④
Master Repeat Card
RESET
WRITE PROTECT
P4
P16
3.15A(T) mains fuse
FS4
L N
P2
SW3
P1
P7 USB
FS3 2A(QB)
BUZZER DISABLE
P14
WD1
PB2
RS485
0V 24V
P8
DANGER DO NOT REMOVE
WARNING Removal of cover exposes live parts.
DANGER
FS2
P5
BT+
BT-
Black
Red
Earth to Inner door
12V 7Ah battery ⑦
Spur Connection
Loop IN
Loop OUT
mains electrical supply
Repeat panel
3.15A(T) mains fuse
L N
FS4
P9
0C LC 01 L1 02 L2
P16
Battery Fuse
3.15A(T) Ceramic (Anti Surge)
FS2

Auto detection of EN or BS system

The Repeat panel automatically detects its connection to either an EN54 or BS5839 fire detection and alarm system.

Membrane labels for BS Repeat panel

It is ONLY necessary to fit the membrane labels ⑥ to a BS Repeat panel when it is installed in a **BS5839 system**, see illustration below.



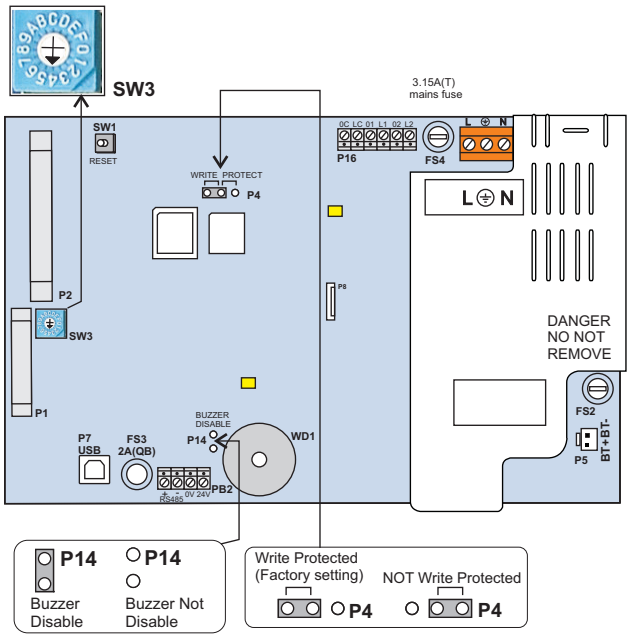
Zone indicators

The zone indicators are not used on a BS Repeat panel. The links that disable the zone indicators are located on the bottom edge of the DKC and these links must be set to **'Without zone indicators'** position. The links are factory set for EN Repeat pane,l that is 'With zone indicator', see illustration on the right.

Display selection

The rotary switch SW3 is located on the Master Repeat Card and must be set in the correct position for the type of display used, factory set to position 4.

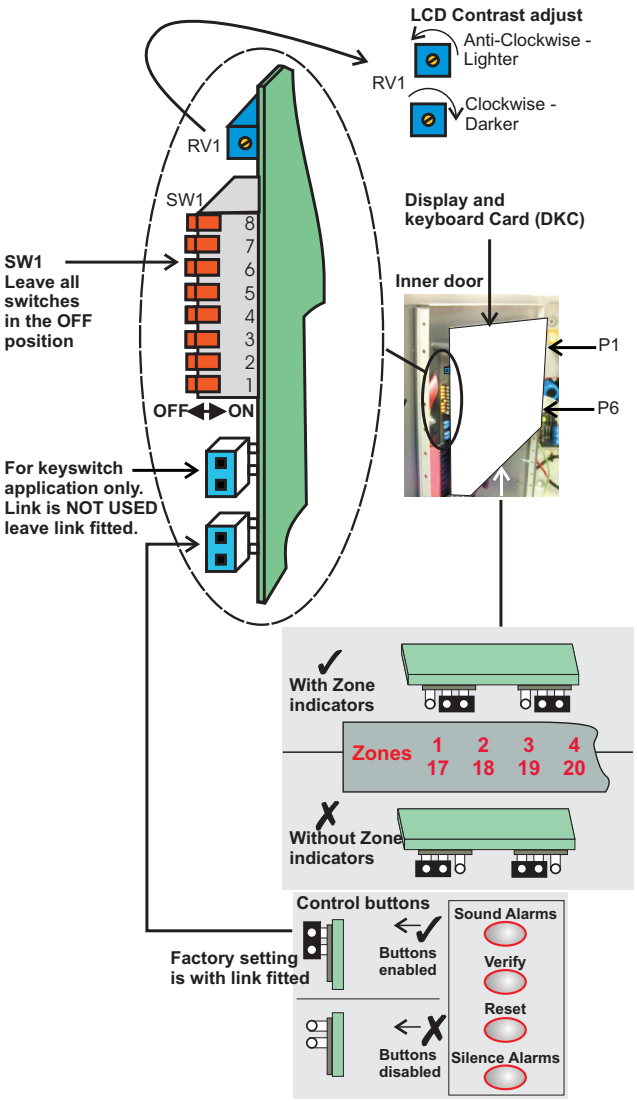
SW3 position	Panel
0	A2/A3/A4 Mimic Panel only
1	3400 Repeat panel (having a 4 line display)
2	32000 Repeat panel (having a 16 line display)
3	Vigilon Repeat panel (having a 16 line display)
4	Vigilon Repeat panel (having an 8 line display)
5 to F	Not used



Write protect link

The **write protect link** P4 on the Master Repeat Card is factory set to protected. Normally it is not necessary to change the link from the factory set position, see the diagram above.

Contrast and Emergency controls



The **display contrast** is set using Pot RV1 on the DKC and is factory set for optimum contrast.
The **emergency control** buttons must always be left in an enabled state, with the control buttons link fitted.

WEEE Directive:
At the end of their useful life, the packaging, product and batteries should be disposed of via a suitable recycling centre.
Do not dispose of with your normal household waste. Do not burn.

At the end of their useful life, the packaging, product and batteries should be disposed of via a suitable recycling centre and in accordance with national or local legislation.

Gent by Honeywell reserves the right to revise this publication from time to time and make changes to the content hereof without obligation to notify any person of such revisions of changes.

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Commissioning information

Vigilon Repeat panel (EN/BS)

VIG-RPT-72

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During commissioning check compatibility, fit labels if necessary and perform tests..

Compatibility

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MCB	≥ V4.21	-
Legacy longer cards		
LCC	≥ V4.00	≥ 3.42
LPC	≥ V4.19	≥ 3.90

≥ means equal to or greater than

Labels for BS Repeat panel only

A BS Repeat panel ONLY require membrane labels to be fitted as shown. Also ensure the Zonal LEDs are disabled by setting the links on the DKC, for details see part 1 of this leaflet.

Buzzer Disable Link

During commissioning it may be necessary to fit a link (not supplied) across P14 on the MRC to disable the local buzzer at the repeat panel. On completion ensure the buzzer is reenabled by removing the link.

Local failure tests

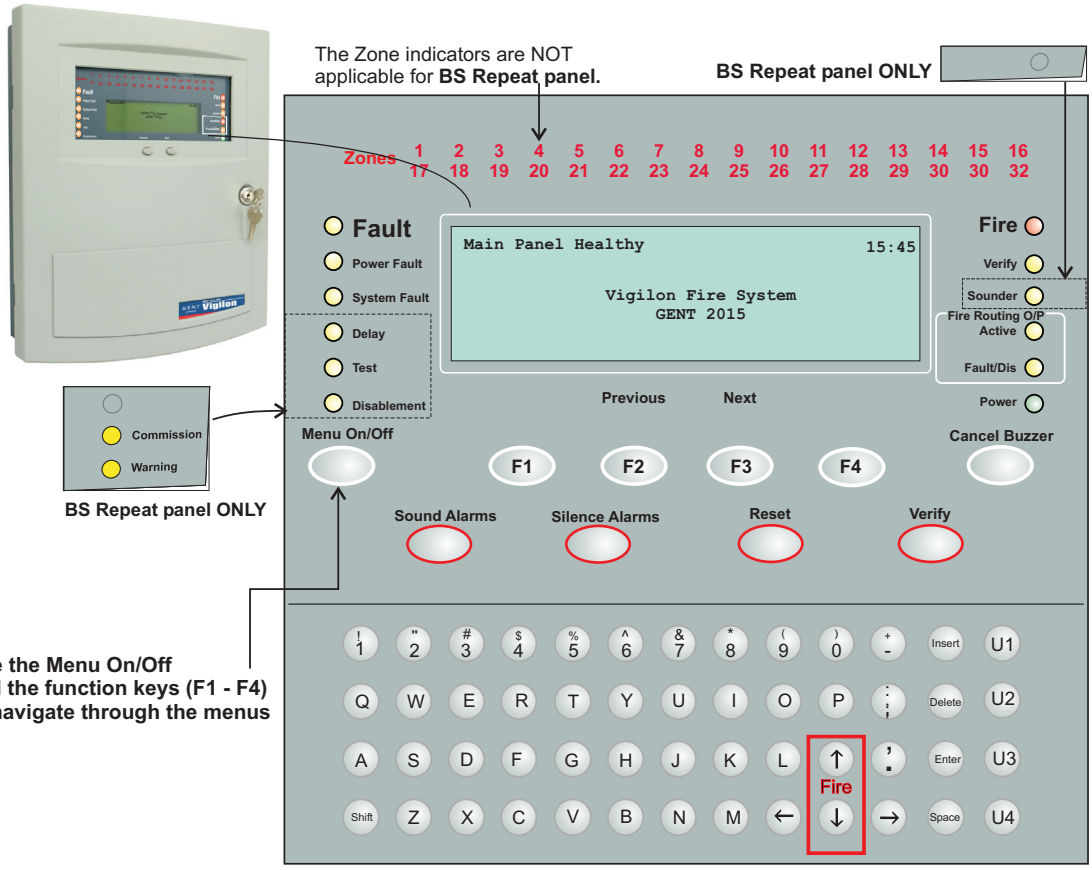
Check to ensure the fault indications are given of typical failure conditions such as local mains and battery disconnections, note:

- ☐ Local buzzer sounds with each fault event (The local buzzer can be silenced using 'Cancel buzzer' button).

Tests

Operating the SOUND ALARMS button will activate the fire alarm sounders in the system.

- ☐ Carry out a Display test to ensure all LEDs are working
- ☐ Ensure a Fire event is indicated and the alarms can be silenced using the Silence Alarms button along with system Reset. Check the Sound and Silence Alarms buttons are working.
- ☐ Operate the U1-U4 Function keys to check if they work. that is if they are configured at the control panel
- ☐ Verify will also work as configured at the control panel
- ☐ Fire Alarm Routing active and fault event indications are given as at the Control panel.



Password or PIN code

The terms *Password, PIN (Personal Identification Number), Usercode and Access code* mean the same and are used interchangeably.

A password restricts access to the controls available to the user at the Repeat panel.

There are four access levels to the controls.

- ☐ The **Access level 1** controls only allows cycling through of multiple fire events messages on the screen using the two buttons on the outer door.
- ☐ **Access level 2a** is for the CUSTOMER. Here the person responsible for the system can access the 'essential controls' by opening the panel outer door using a key
- ☐ **Access level 2b** is for the CUSTOMER. Here the person responsible for the system can access essential controls and some configuration menus using the panel door key plus a customer PIN.
- ☐ **Access level 3** is for the ENGINEER. Here the person responsible for the system can access essential controls and all system menus using the panel door key plus an Engineer PIN.
- ☐ **Daily PIN**
  There is another PIN that changes daily, which is available to the servicing organisation. This daily PIN provides the same access to controls as the Engineers' PIN. The daily PIN is only used when the Engineer's PIN is not known.

Always make a note of the Customer and Engineer PINs once they are created. Ensure the Customer PIN is passed on to the person responsible for the fire alarm system on the site.

How to create an Engineer PIN

Teh Repeat panel leave the factory with no Engineer PIN code (Access level 3 code). Therefore, on first power up there is an open access to all the Access level 3 menus.

The menu options under the Engineer PIN provides access to level 3 controls that can alter the configuration of the system.

To create or change an existing Engineer PIN:
(You will need to be at Access level 3 if an Engineer PIN is already set up.)

- ☐ Press the **Menu On/ Off** button and select **[Test/Eng] ->[UserCode]# ->** then momentarily press **<etc>** to select **[Config] -> [New Pass]** and then type a new PIN or change an existing PIN and press the Enter key.
  # - will appear if a PIN is already setup.
- ☐ It is recommended that the PIN is at least 4 numbers and no greater than 15 numbers and letters in the password code.

How to change the Customer PIN

This repeat panel automatically sets up a FACTORY DEFAULT CUSTOMER PIN: 2 2 2 2, that is after an Engineer PIN is made active.

The Customer PIN provides access to access level 2 restricted menu options that cannot alter the configuration of the system. To change a Customer PIN:

You will need to be at Access level 2.

- ☐ Press the **Menu On/Off** button and then **[Test/Eng] -> [UserCode] ->** enter the existing Customer PIN and select **[Enter],** select **[New Pass]** and then type a PIN of less than 15 characters in length and press the Enter key.
- ☐ It is recommended that the PIN is at least 4 numbers and no greater than 15 characters.

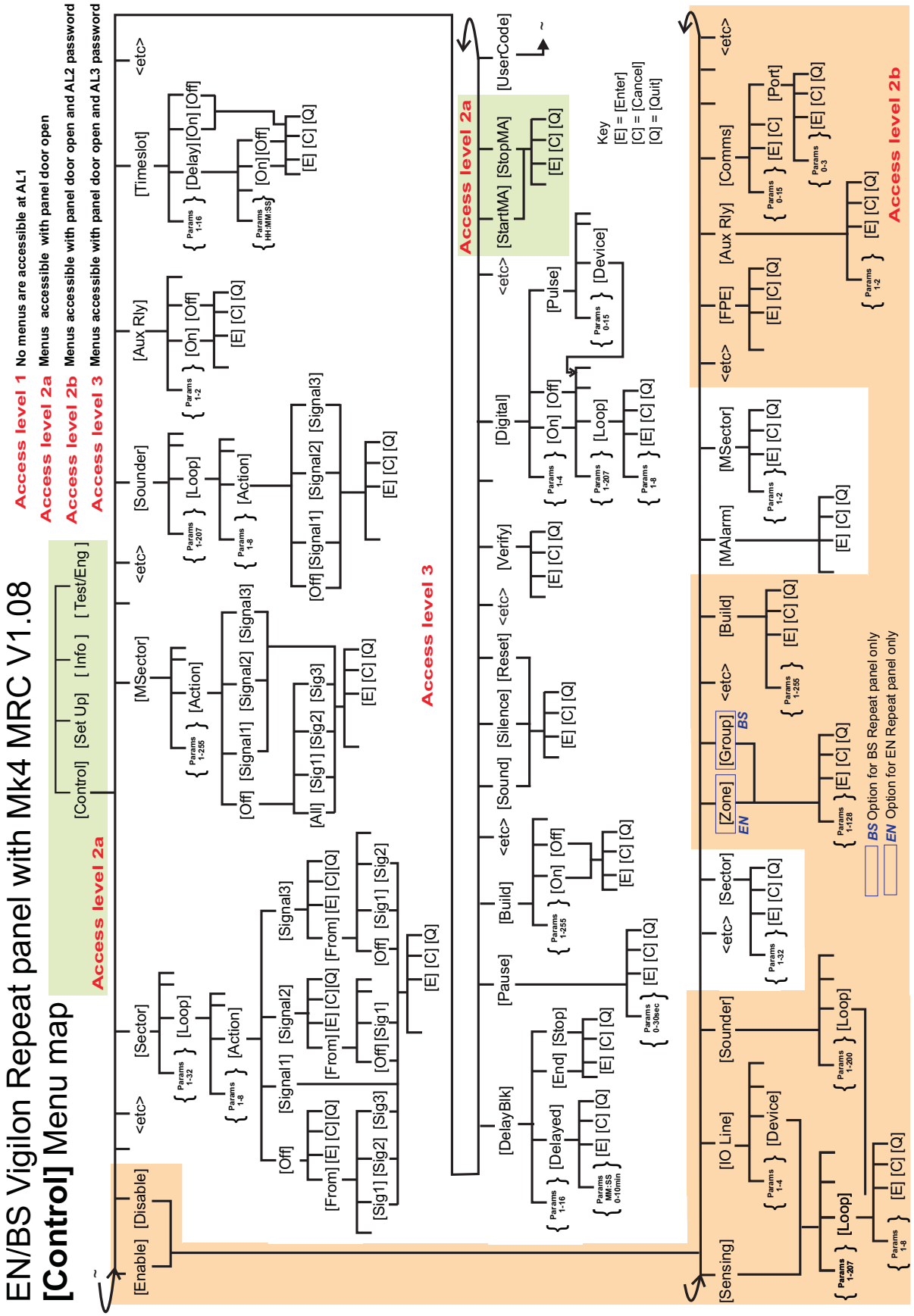
How to erase a PIN

The Engineer or Customer PIN can be erased. To erase the PIN of either Customer or Engineer level you will need to be at the respective access level.

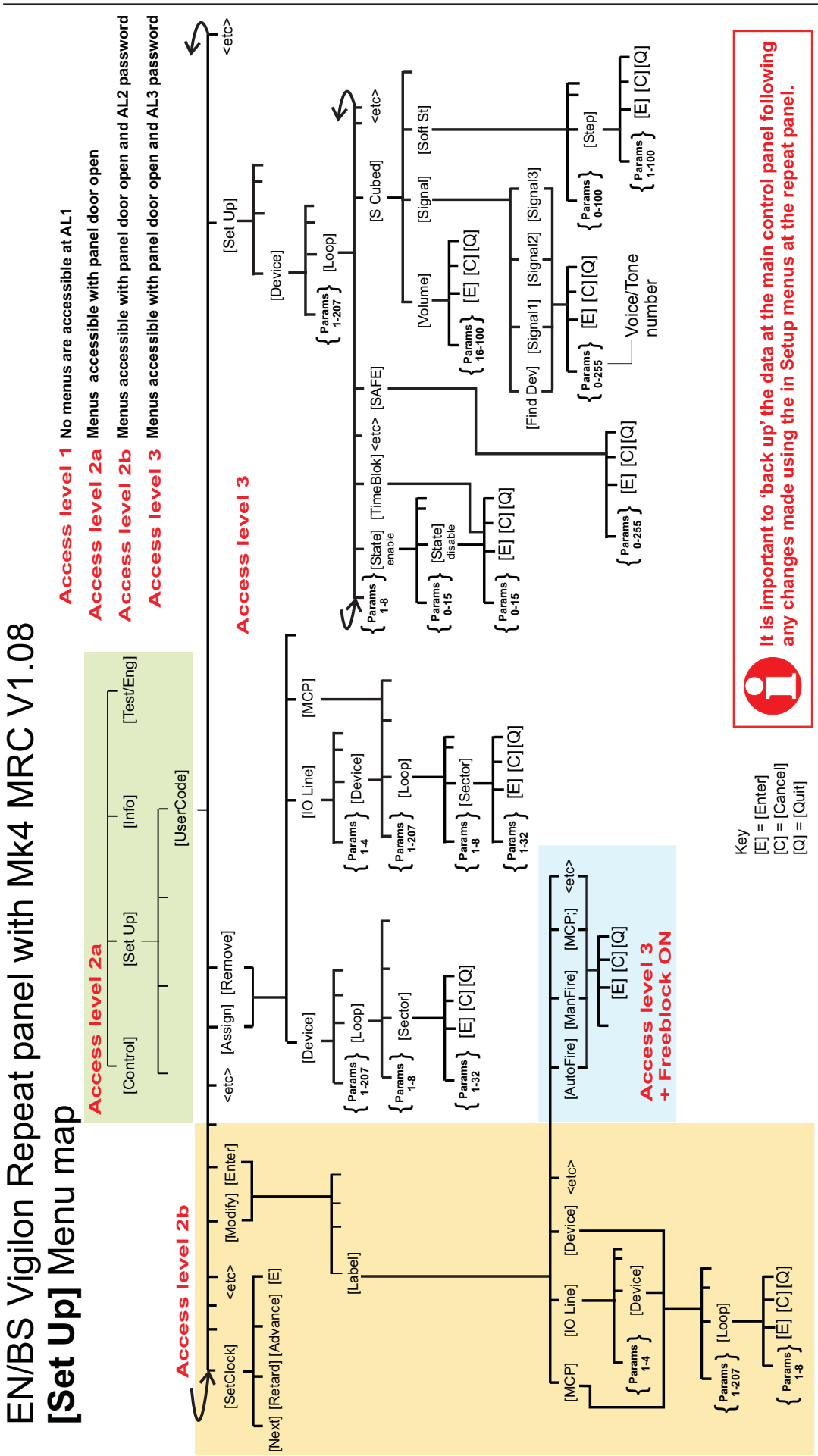
- ☐ Press the **Menu On/Off** button and then **[Test/Eng] -> [UserCode] ->** enter the existing Customer PIN/Engineer PIN and select **[Enter],** select **[New Pass]** and then just press the Enter key, this will erase the PIN. If the Engineer PIN is erased then Customer PIN is also erased giving open access to all the menus.

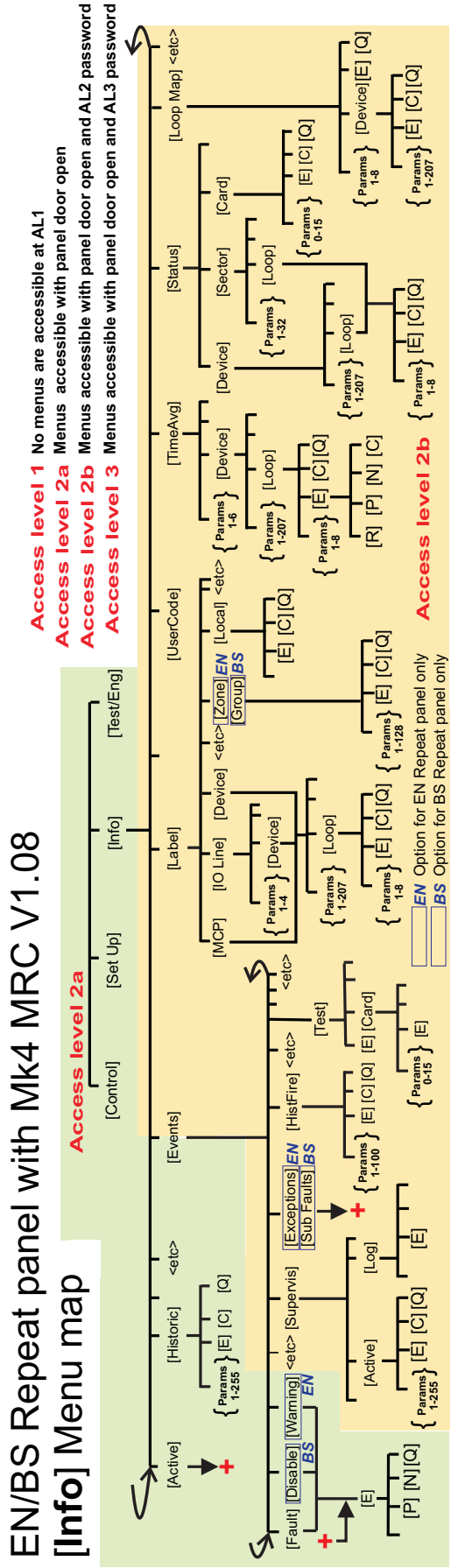
Menu maps

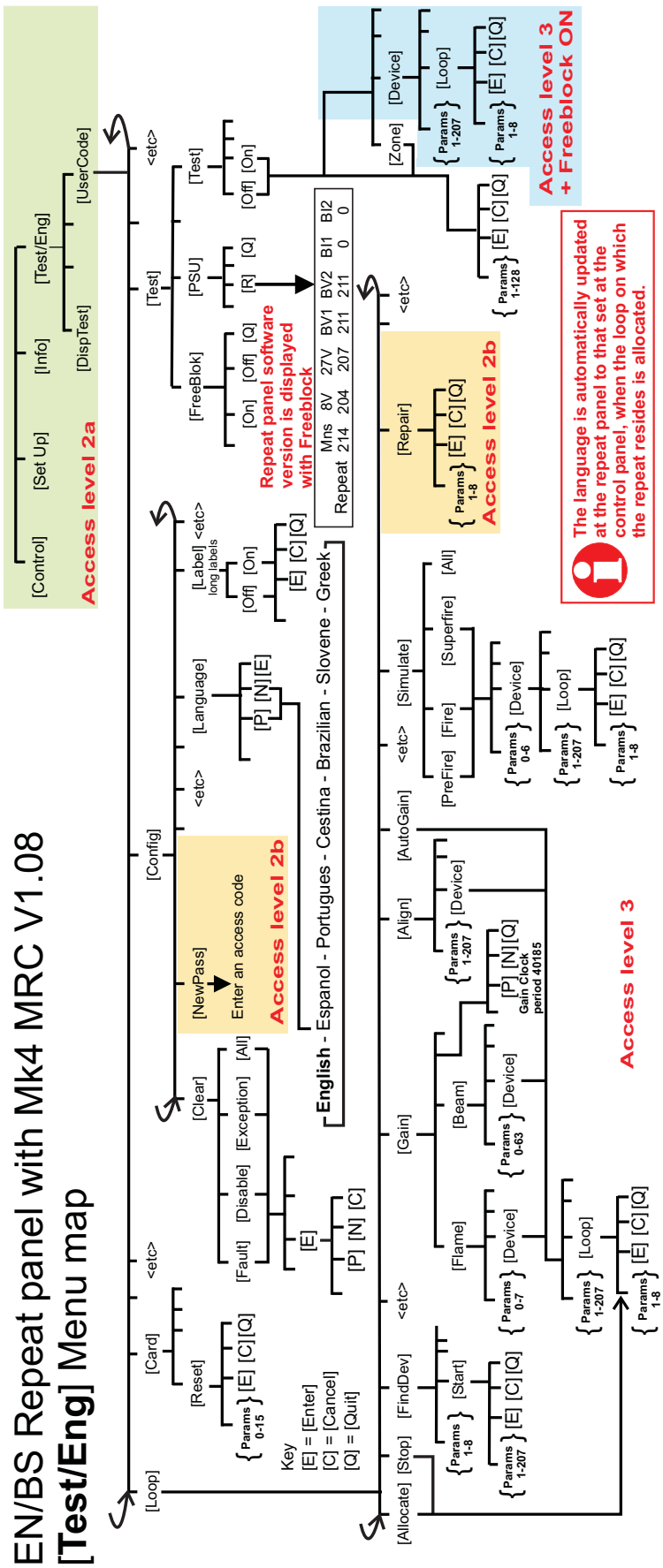
The full repeat panel menu maps will only be accessible following the allocation of the loop on which the panel resides.



EN/BS Vigilon Repeat panel with Mk4 MRC V1.08
[Set Up] Menu map




EN/BS Repeat panel with Mk4 MRC V1.08
[Info] Menu map
Access level 1 No menus are accessible at AL1
Access level 2a Menus accessible with panel door open
Access level 2b Menus accessible with panel door open and AL2 password
Access level 3 Menus accessible with panel door open and AL3 password
Access level 2a
Access level 2b
EN Option for EN Repeat panel only
BS Option for BS Repeat panel only


EN/BS Repeat panel with Mk4 MRC V1.08
[Test/Eng] Menu map
Access level 2a
Access level 2b
Access level 3
Access level 3 + Freeblock ON
Repeat panel software version is displayed with Freeblock
English - Espanol - Portugues - Cestina - Brazilian - Slovene - Greek
Key
[E] = [Enter]
[C] = [Cancel]
[Q] = [Quit]
The language is automatically updated at the repeat panel to that set at the control panel, when the loop on which the repeat resides is allocated.

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