Data and installation

Vigilon Plus Repeat panel (VIGPLUS-RPT)

The loop connectable Vigilon Plus 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 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 a 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 listed below.

Plus panel with shorter cards having fire routing capability:

MCC/MCB	4.54
LPC	4.48

Legacy panel with shorter cards without fire routing capability:

Panel fitted with Shorter cards	
MCC	V4.11
MCB	V4.21
LPC	V4.19

Legacy panel with Longer cards:

Panel fitted with Shorter cards	
LCC	V4.00
LPC	V4.19

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 voltage	230V -15% +10% 50/60Hz
Rated Current	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 & Backbox - HONEYWELL GREY 90 PMS BLACK C
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, Cancel Buzzer, Verify, F1-F4, Menu On/Off and U1 - U4.
Indicators	Fire, Verify, Sounder, Active & Fault/Dis *for fire alarm routing*, Power, Fault, Power Fault, System Fault, Delay, Test and Disablement 32-Fire Zone LEDs. 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} 48V V_{nom} 40V V_{min} 35V $V_{SO\ max}$ 16V $V_{SO\ min}$ 8V $I_{C\ max}$ 0.8A $I_{S\ max}$ 1A $I_{L\ max}$ 20 A $Z_{C\ max}$ 0.16

Symbols on product

Electric shock hazard.

Protective Earth connection terminal.

The WEEE symbol. It indicates the product is to be recycled and not thrown away.

The CE compliance logo. This product is in conformity with the relevant European union harmonisation legislation.

The RoHS compliance logo. The RoHS directive restricts the use of certain hazardous substances commonly used in electronic and electronic equipment.

Installation

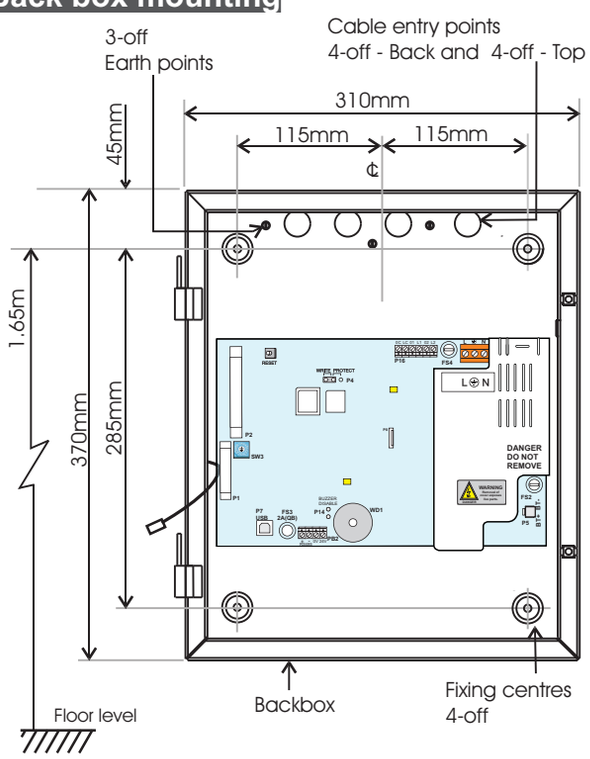
The Repeat Panel Set consists of:

	Parts	Qty
①	Backbox assembly	1
②	Outer door assembly	1
③	Inner door assembly	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



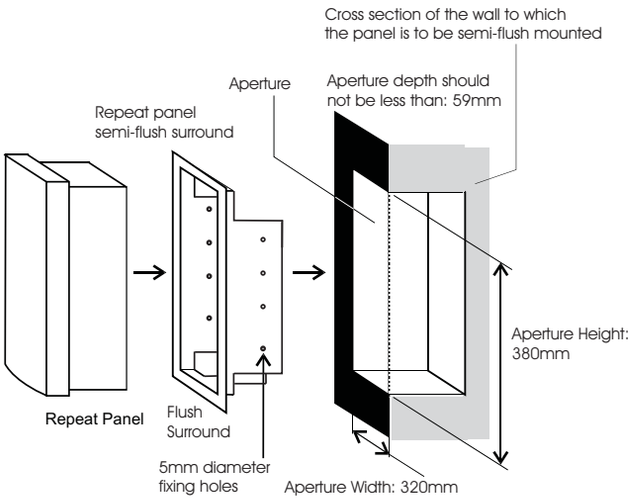
a Find the Repeat panel Back box ① package and remove the temporary cover.

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.

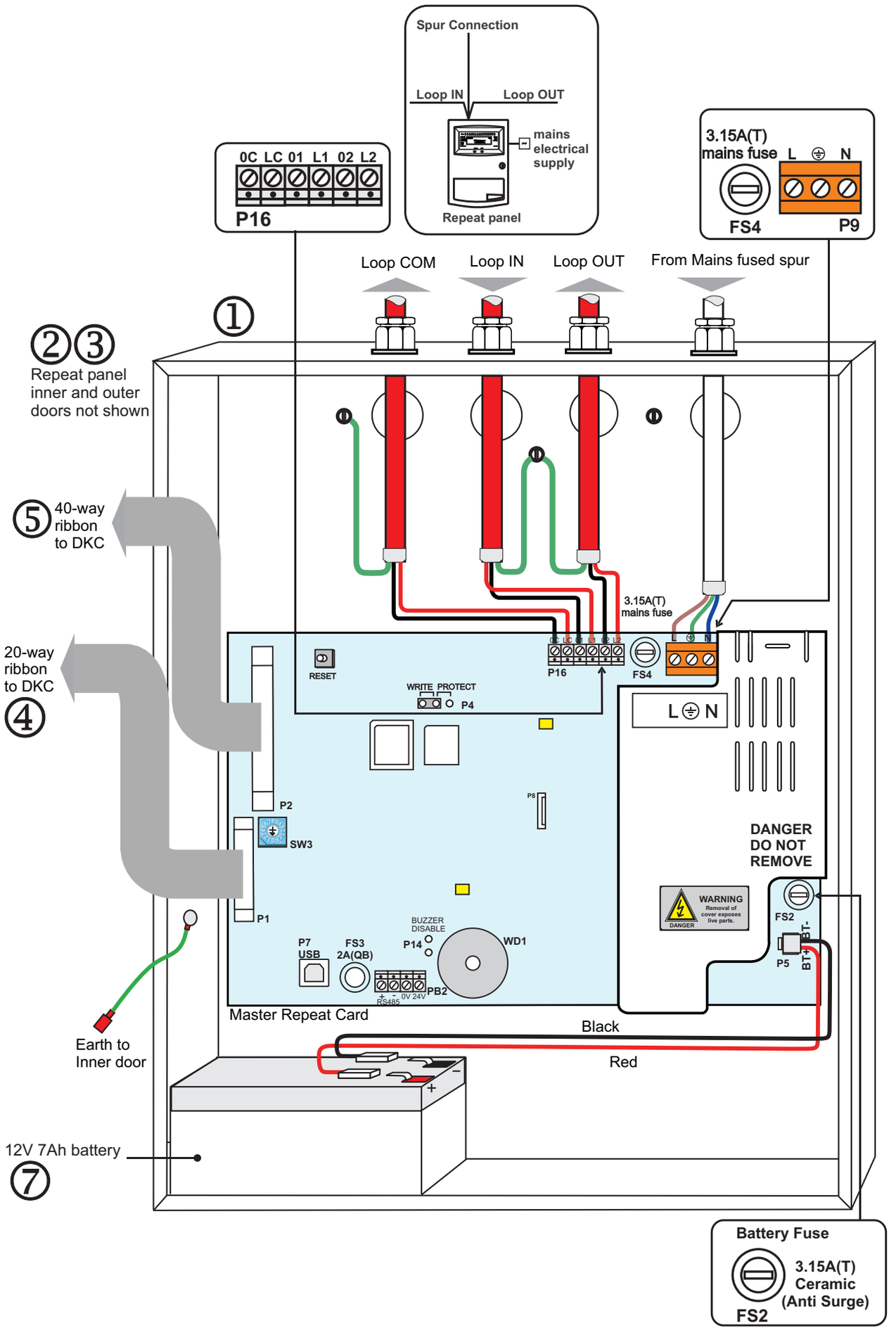
c Wiring the panel:

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 The panel is powered-up during commissioning, which is done by a commissioning engineer switching on the mains power and thenby connecting the battery leads to the batteries:

- 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.


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

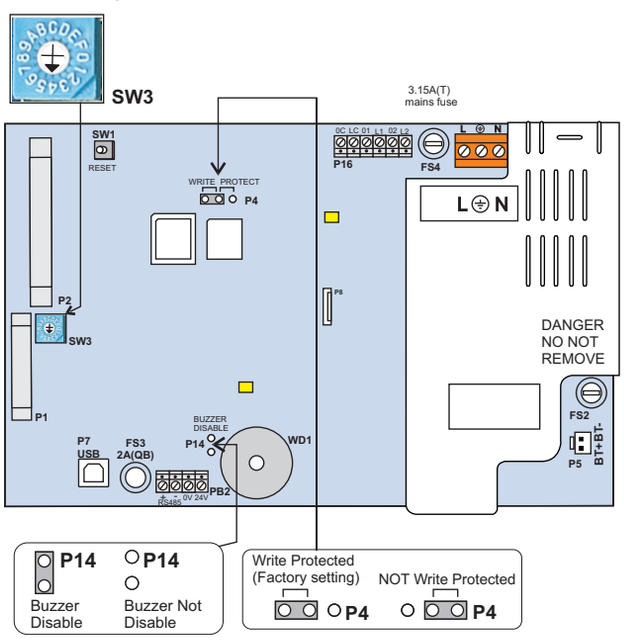
Zone indicators

The two links on the DKC are factory set for Vigilon Plus Repeat panel, meaning with 'zone indicators', see illustration on the right.

Display selection

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

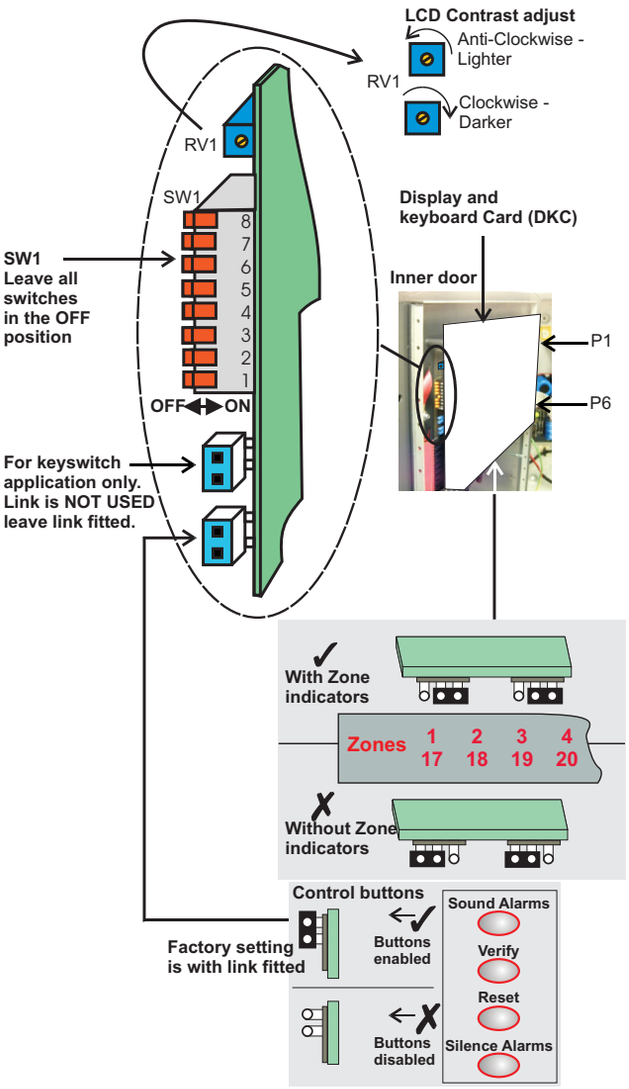
SW3 position	Panel
0	A2/A3/A4 Mimic Panel only
1	3400 Repeat panel (having a 4 line display)
2	32000 Repeat panel (having a 16 line display)
3	Vigilon Repeat panel (having a 16 line display)
4	Vigilon (inc) Plus Repeat panel (having an 8 line display)
5 to F	Not used



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.

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Commissioning information

Vigilon Plus Repeat panel (VIGPLUS-RPT)

The Vigilon Plus Repeat panel is compatible for use in both Vigilon Plus panel or Vigilon Compact Plus panel based systems.

Check panel firmware

During commissioning checks must be made to ensure the main control panel card firmware is consistent with that shown in the table below.

Plus panel with shorter cards having fire routing capability:

MCC/MCB	4.54
LPC	4.48

Legacy panel with shorter cards without fire routing capability:

Panel fitted with Shorter cards	
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LPC	V4.19

means equal to or greater than

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

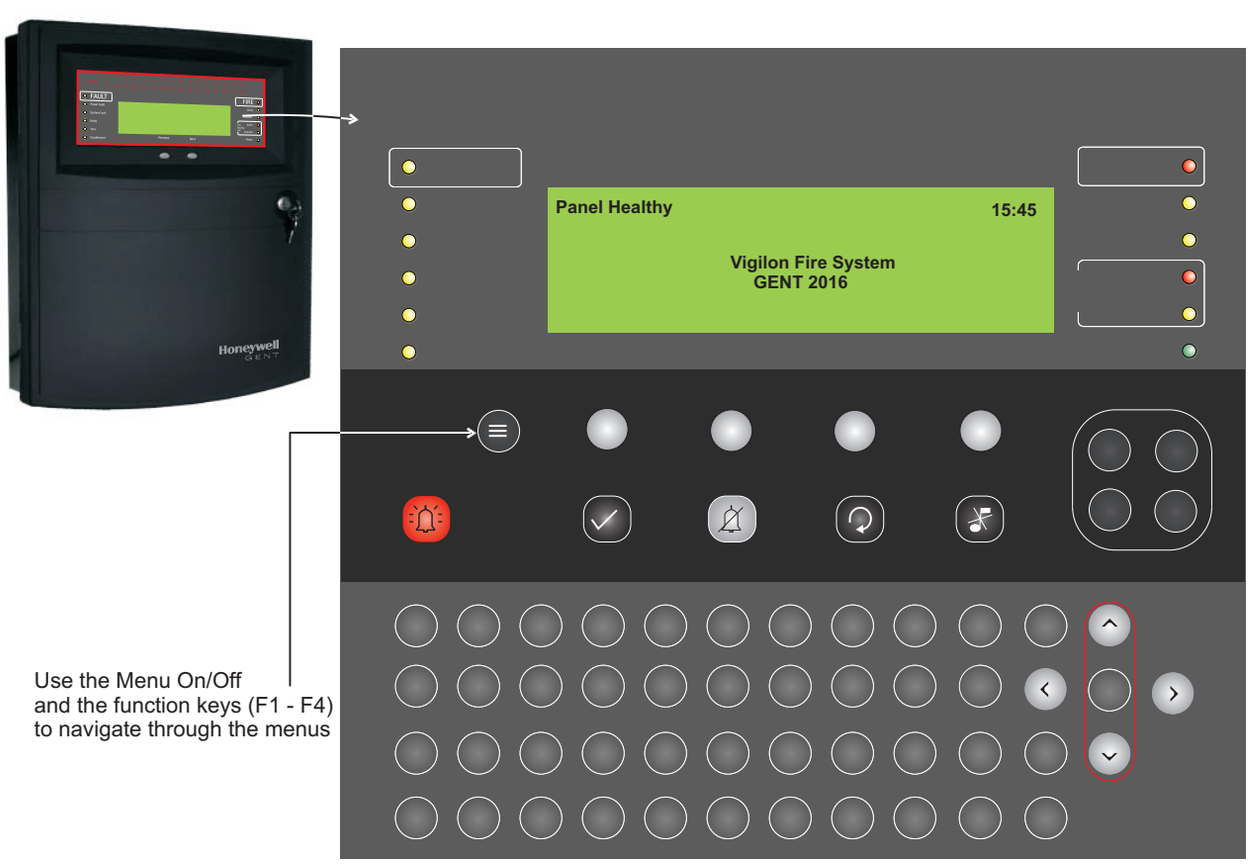
Check to ensure the fault indications are given of typical failure conditions such as local mains and battery disconnections, note:

- ☐ 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 and the system can be Reset. Also check to ensure 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
- ☐ Operate Verify ensure it is working if 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.

- ☐ **Access level 1** will allow cycling through multiple fire event 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

The Repeat panel leaves 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.

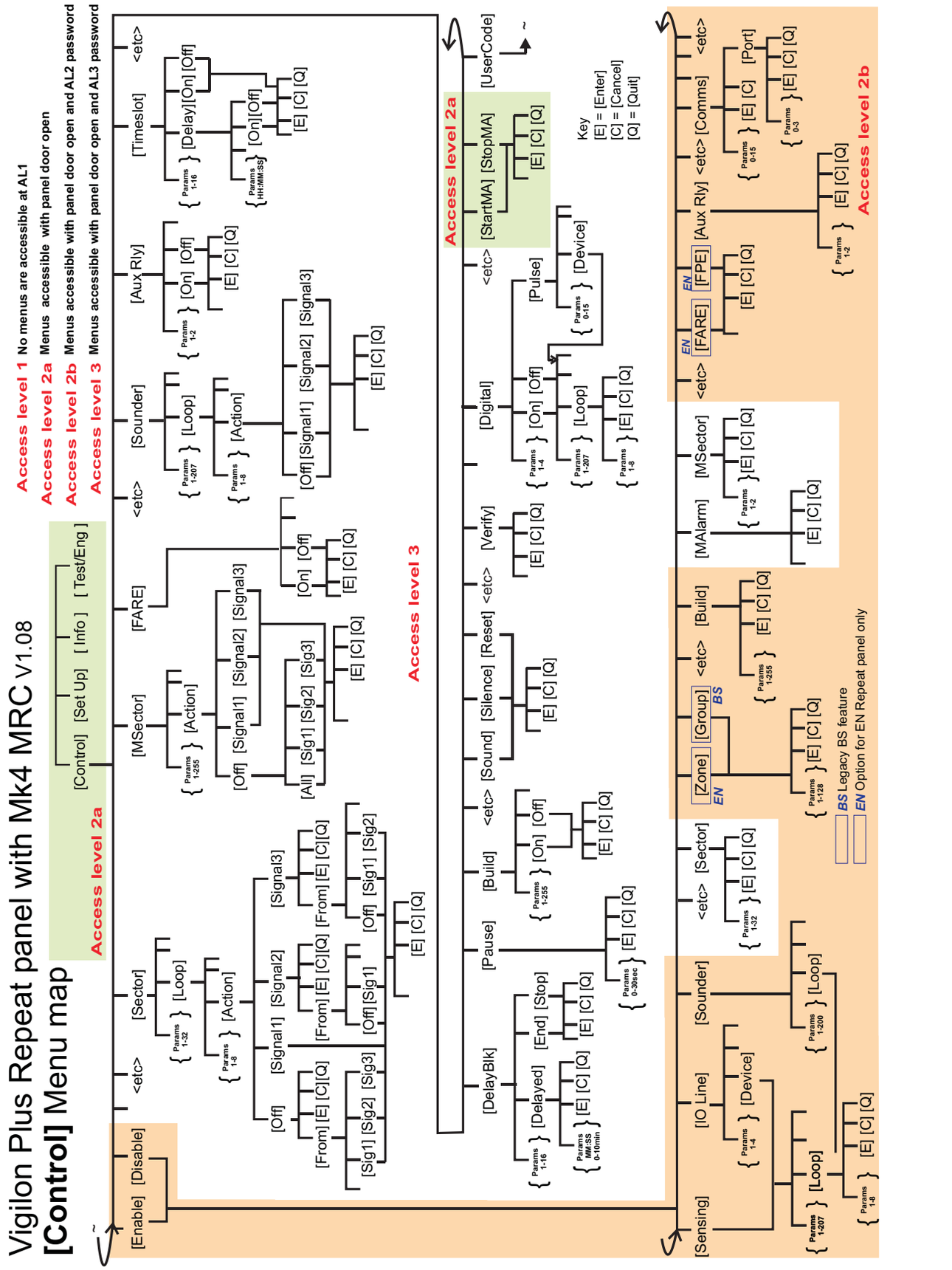
How to erase a PIN

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.

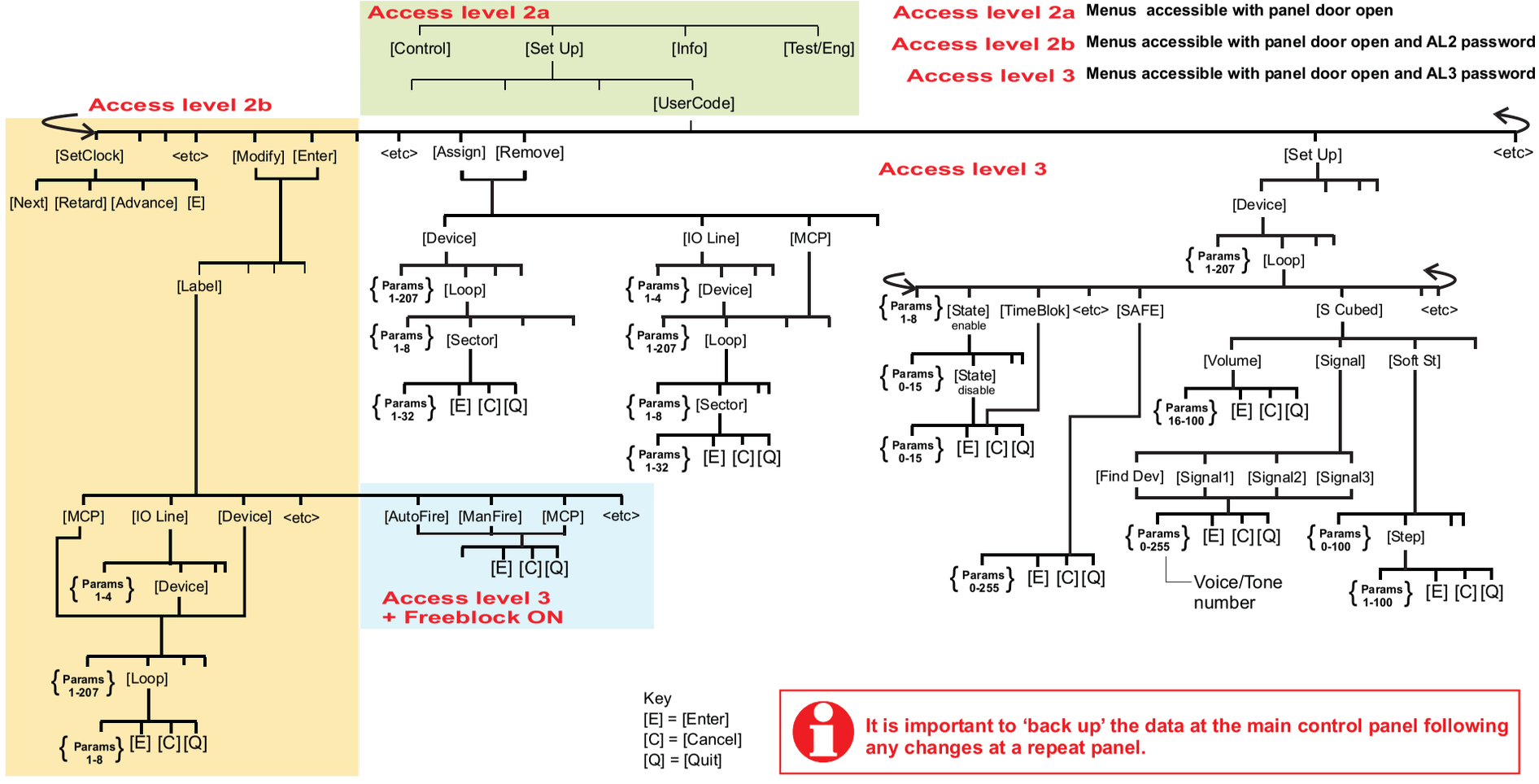
Menu maps

The full repeat panel menu maps will only be accessible after powering up the repeat panel and the loop on which it resides is running (has started).



Vigilon Plus Repeat panel with Mk4 MRC V1.08
[Set Up] 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

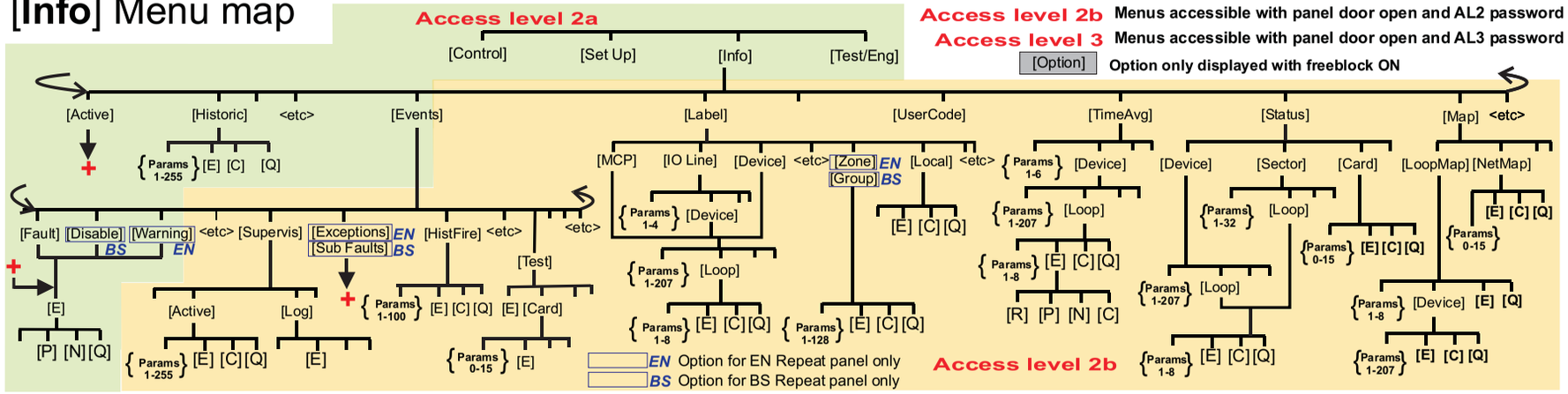


Key
[E] = [Enter]
[C] = [Cancel]
[Q] = [Quit]

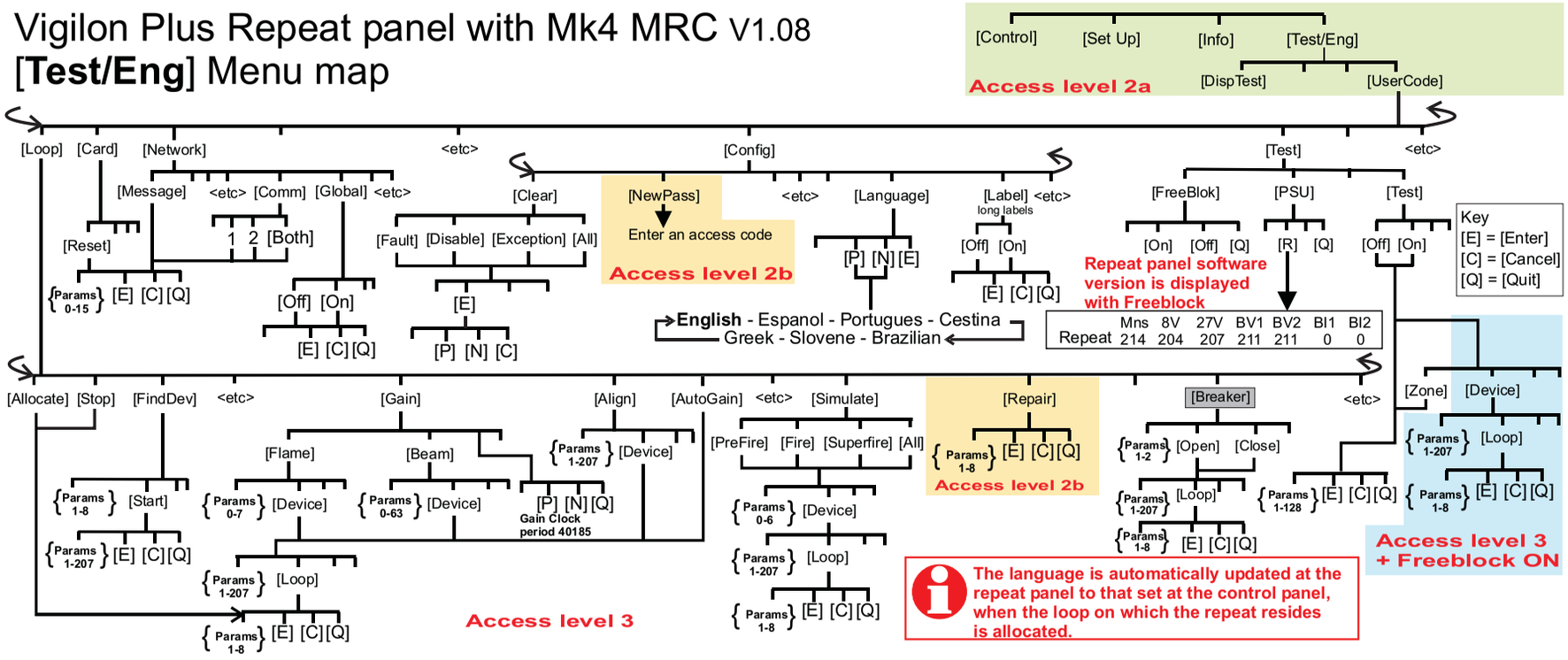
It is important to 'back up' the data at the main control panel following any changes at a repeat panel.

Vigilon Plus 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
[Option] Option only displayed with freeblock ON



Vigilon Plus Repeat panel with Mk4 MRC V1.08 [**Test/Eng**] Menu map



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