

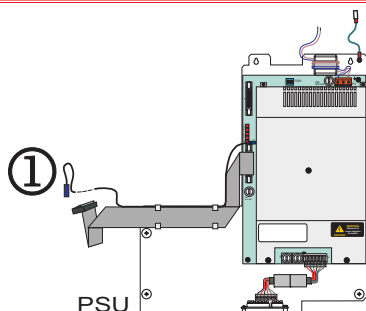
Replacement PSU for Vigilon

Backward Compatible (VS-PSU-RPL)

This replacement power supply unit (VS-PSU-RPL) can be used to replace a faulty power supply unit in a Vigilon or 34000 fire alarm control panel or network (terminal) node.



The mains supply to the panel, node and external charger units (where applicable) must be completely isolated before commencing PSU replacement work.



②

x 1 Battery Connection Board x 1 Instructions

Spares pack 1

③

x 4 Battery cable assembly

④

x 2 Battery Link assembly with spade connectors

⑤

x 1 Terminal block

x 4 10A Fuse QB ceramic 20 x 5mm

Spares pack 2

⑥

x 1 Terminal Card to PSU cable assembly

⑦

x 1 Terminal Card to PSU - Ribbon Cable

⑧

x 1 Backplane to Terminal Card - Ribbon Cable

⑨

x 4 Stand offs

⑩

x 1 Thermistor lead

Spare Parts

- x 2 22K 0.5W Resistor
- x 2 10A Fuse QB ceramic 20 x 5mm
- x 1 3A15 Fuse AS glass 20 x 5mm
- x 1 3A15 Fuse QB ceramic 20 x 5mm
- x 2 1A Fuse QB ceramic 20 x 5mm

Compatibility

The *Replacement PSU for Vigilon* can only be installed in a 34000 or Vigilon panel/node having **short cards** with minimum software version as stated below:

Short card	Software version number
MCC	V3.90 / V4.22 or higher
LPC	V3.84 / V4.19 or higher
IO	V3.74 / V4.06 or higher

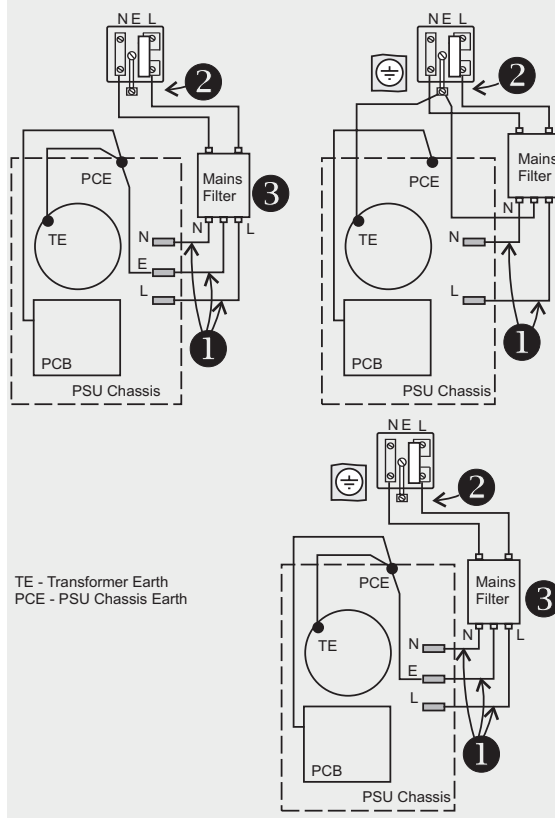
How to remove the existing PSU from a panel / node

- Isolate the mains supply to the panel / node.
- Open the outer door of the battery box and disconnect battery power to the panel / node.
- Open the outer and inner doors of the panel / node and remove the Metal cover if fitted over the Terminal card. Discard the metal cover.

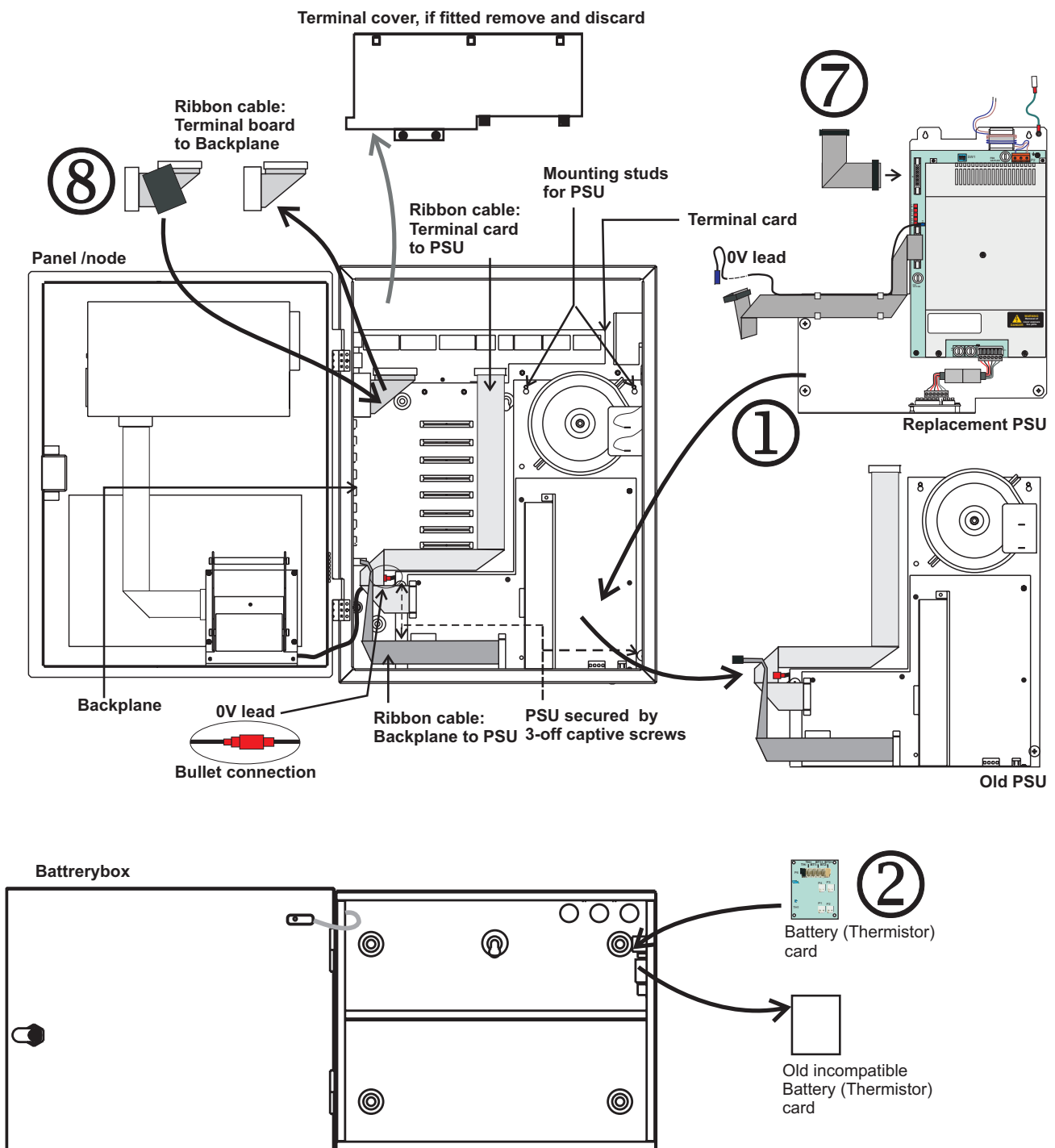


For safety, remove the mains fuse from the mains terminal block inside the panel/node.

Various PSU mains and filter wiring of installed Vigilon panels



- d) Unplug the mains Live and Neutral (and Earth where applicable) wires ❶ from the PSU.
- e) Disconnect the mains Live, Neutral and all Earth wires ❷ from the mains terminal block.
- f) Remove and discard the mains filter ❸, by first removing the nut and bracket that secures the filter.
- g) Disconnect ribbon cable from connector at P12 on the Backplane and unclamp the cable.
- h) Disconnect ribbon cable from connector at P10 on the Terminal card.
- i) Unplug the 0V (black) lead bullet connection at the PSU.
- j) Unplug the battery and thermistor cables from sockets P3 and P5 on PSU.
- k) Unscrew the three captive screws. Hold the PSU lifting it up and then out from the panel / node.
- l) Remove the Terminal card to Backplane ribbon cable assembly and replace it with the one supplied ❸.



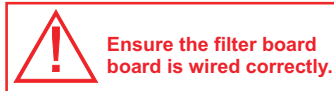
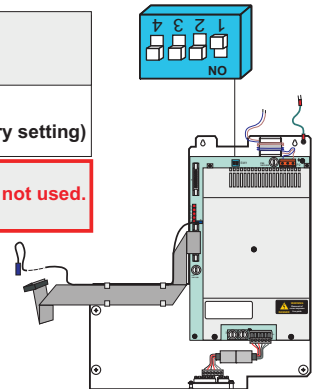
Settings for EN and BS panel

- Configure the dual-in-line switch located on the top edge of the PSU for BS or EN panel.

1
OFF  **PSU for BS5839 Panel**

1
OFF  **PSU for EN Panel (factory setting)**

 **Switches 2, 3 and 4 are not used.**



The wiring between the panel/node and battery box must be done correctly, observe terminal markings. Fit the terminal block ⑤ to the thermistor card for mounting into the battery box to allow connection of external wiring.



A maximum cable distance of 10m / 15m is allowed between the control panel and battery box when using 1.5mm / 2.5mm MICC cable.

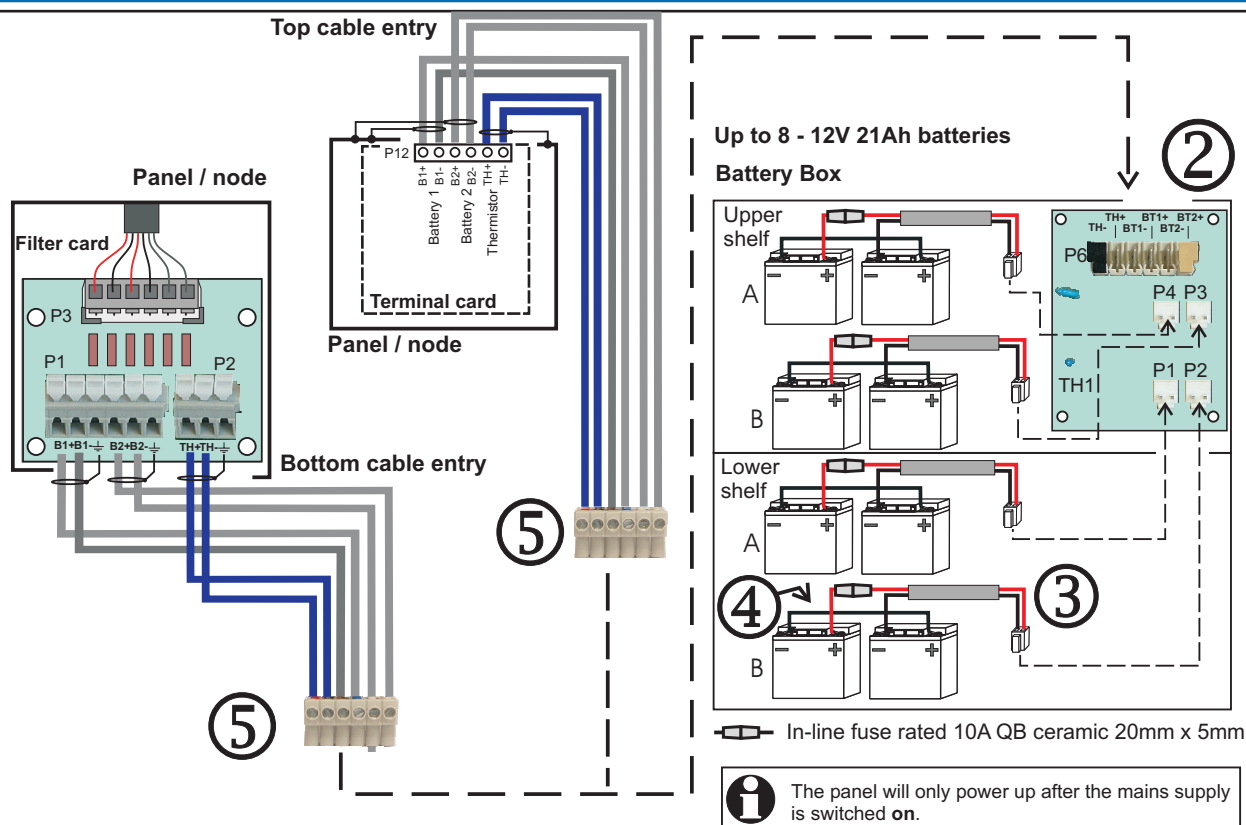
- a) Carefully disconnect and discard all internal battery circuit wiring inside the existing battery box.
- b) Replace the *thermistor PCB* located on the right side of the battery enclosure with the one supplied in the spares pack ②.
- c) Wire the battery circuits using cables supplied, ③ and ④, but do not make final connection until power up.

Where an existing non standard battery enclosure is to be re-used for battery storage, then disconnect all the internal battery circuit wiring. Install the thermistor PCB ② in a suitable location inside the enclosure using 4-stand-offs ⑨ to allow wiring to reach all the batteries using cables ③ and ④ supplied in the spares pack.

If batteries are stored in enclosures having 05216 charger then ensure the charger is safely decommissioned.

Where a decommissioned 05216 charger was fault monitored by the Vigil system via a 34415 Interface unit, then the interface unit must also be decommissioned.

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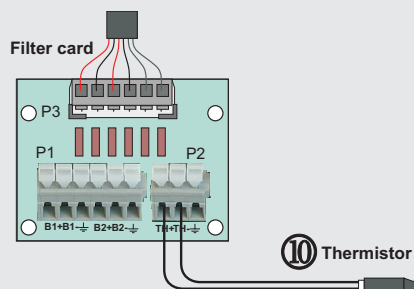


Leaded thermistor



The battery connection board ② must be used where possible as described in this leaflet and to meet the current standards. Where this is not practical the leaded thermistor ⑩ may be fitted as described here.

Remove the terminal block from the *leaded thermistor assembly* ⑩ and then connect the wire ends to the terminals TH+ and TH- on the *filter board*.



Power up

After all the installation and wiring is complete:

- Connect the battery supply to the panel / node. Note the panel will power up after mains supply is switched ON.
- Connect the mains supply, fit the mains fuse in to the mains terminal block and switch ON the mains power to the panel / node.
- Carry out battery and PSU tests, such as disconnection and reconnection of battery circuit(s) and mains supply to check for fault monitoring. Ensure that the charger ADC- battery ADC is <5bits (e.g. BC1-BT1 < 5). Also the battery float voltage should be about:
27.5V @ 15 Deg C
27.3V @ 20 Deg C
27.1V @ 25 Deg C
- Close the inner and outer doors of the panel / node and also the outer door on the battery box.



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.



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.

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 or changes.

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