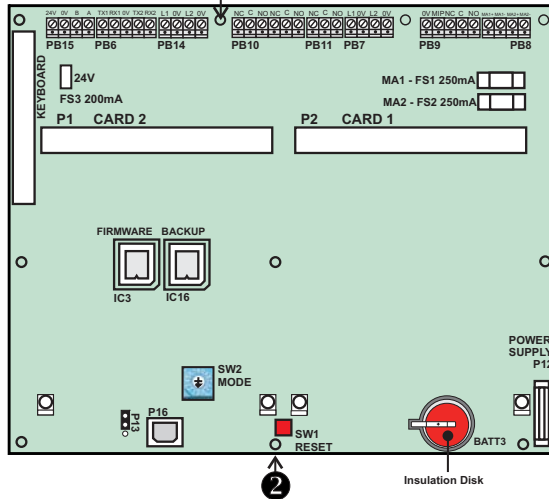# Installation
Master Control Board
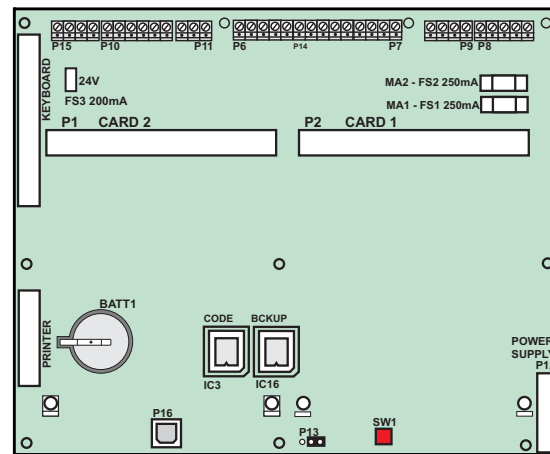## (VCS-MCB-N)

GENT
by Honeywell

These instructions cover how to fit a new Master Control Board (VCS-MCB-N) into a COMPACT-24 (non networkable) or COMPACT-24-N (networkable) Vigilon Compact panel.

NEW Master Control Board (new replacement MCB) - networkable

OLD Master Control Board (old MCB) - non networkable

⚠ **When a network card is to be installed ensure a spade tab is fitted under the PCB fixing screw ❶. Also ensure the bottom PCB fixing screw ❷ is tightened to give good connection.**

How to replace a MCB

There are in existence **four** variants of Vigilon Compact panels in the field. Here are the steps to replace an old or new type *MCB* fitted in a panel.

Save Configuration to Commissioning tool

☐ If the panel is functioning correctly, before powering down, ensure the system configuration is retrieved to the laptop via commissioning tool.
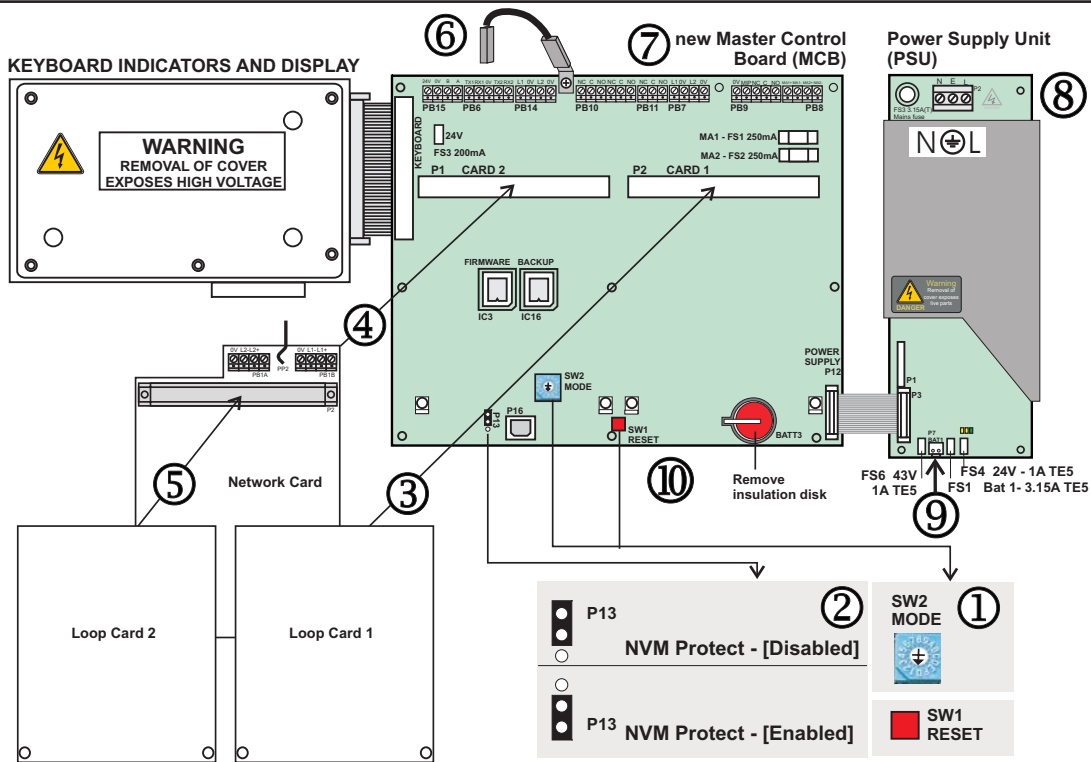
Power down

☐ Completely power down the panel by isolating the mains and battery supply and then remove the ribbon cable connectors from the *MCB*.

Remove the cards

☐ Remove the Loop card(s) from the *MCB and Network card#*. Remove *Network card#* from *MCB* and then remove the *MCB* from the panel. (# - where applicable)

Firmware number and rotary switch setting

☐ Make a note of the firmware number on the chip in socket IC3 of the *MCB* being replaced. Using the table determine the applicable switch setting required and set the rotary switch on the *new replacement MCB*.

Firmware in socket IC3 of MCB being replaced	Applicable setting of switch SW2 on new replacement MCB
2211-148	0
2211-146	1
2211-136	2
2211-127	3

Configuration

☐ Using a chip extractor, extract the Back up 'Configuration' chip fitted in IC16 (NVM) of the *MCB* removed from the panel and then fit the chip into the *new replacement MCB*.

⚠ **Where the Configuration chip is corrupt or is incompatible then do not fit the chip into the new replacement MCB. Instead transmit saved configuration from the commissioning tool to the *new MCB*. The transmission must take place after panel power up. Back up the configuration to Card 14.**

Re-fit the cards

☐ Fit the *new MCB* into the panel and reconnect the ribbon cables, and then fit the previously removed *Network card* and Loop cards.

☐ An earth lead must be fitted between the spade tabs ❶ on *MCB* and *Network card*.

Power up

☐ Power up the mains and battery supplies to the panel.

Setting the Rotary switch SW2

Before installing the *Loop and Network cards* onto the *MCB* ensure the rotary switch ① **SW2** is set to a required setting, see options on previous page.

NVM hardware link P13

The NVM can be enabled or disabled by setting a hardware link ② on the MCB. If the NVM protect is hardware disabled then it is also possible to software enable or disable the NVM using a [Protect] menu option under the [Setup] menu at the panel.

Unprotect: Normally during commissioning the NVM is disabled (unprotected) and writing to NVM is allowed.

Protect: Once the configuration is backed up to the NVM, the hardware link must be enable to disallow writing to the NVM.

Installing the Cards

The MCB can accommodate two Loop Cards. One Loop card ③ can be fitted into slot labelled CARD1 and the other Loop card ⑤ into slot labelled CARD2.

> **For a networkable system a Network Card ④ can ONLY be fitted into the slot CARD 2. Additionally the Network Card can accommodate the second Loop card.**

Earth Link

An earth link ⑥ is supplied with the Network Card. The link must be fitted to the spade connector on the top edge of *MCB* with the other end to the spade connector on the *Network Card.*

Battery

The lithium battery ⑩ is disconnected on leaving the factory by means of an insulation disk over the top connector. The insulation disk must be removed before powering up the system.

Terminals

Terminal blocks ⑦ on the top edge of the MCB are used for wiring external circuits. The terminal block ⑧ on the top edge of the PSU is used for wiring the mains supply to the panel. The connector ⑨ located on the bottom edge of the PSU board is used to connect the battery supply.

> 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 of changes.