

Replacement Interface PCB kit (VSINTL-PCB) Installation

These instructions show how to replace the PCB inside a 34450 Loop powered interface for field scenarios **A**, **B** and **C** with a VSINTL-PCB.

i These instructions cover 34450 Loop powered interface unit without a keyswitch door.

Kit content

- Stand off x 4
- Screw with washer x 4
- Chassis Plate x 1
- PCB x 1

Field Scenarios

A 34450 Interface unit with remote Line Modules

B 34450 Interface unit with Line Modules inside the unit

C 34450 Interface unit with 19245-06 Power Supply Unit

Key: MCC Main Controller card
LPC Loop Processor Card

Control panel compatible short card versions

- 1) Check to ensure a short MCC is fitted inside the control panel having software at: V4.10 or greater V3.7 or greater.
- 2) Check to ensure the short LPC's are fitted inside the control panel having software at: V4.11 or greater V3.81 or greater.

Important wiring checks

- 3) Output channel:
Where a channel is used as an Output then the remote Line Module is no longer required. Check the existing external wiring to ensure it can be connected to the load and is suitable for switching the required load current directly from the VSINTL-PCB.

i If all the relay output contacts (NC COM NO) were being used to drive the load, then a new three core cable will be needed from the VSINTL-PCB to drive the load.

Input channel:
Where a channel is used as an Input then the remote Line Module can be reused as it will have the end-of-line resistors fitted. Therefore the input wires can directly connect to the VSINTL-PCB.

Replacement

- 4) Convert the VSINTL-PCB to a backward compatible interface using the V1.04 Interface Programmer (S4-INTERFACE-PROG).
- 5) Power down the interface from the control panel and then open the interface enclosure cover.
- 6) Label all the wires to ensure they are reconnected to the appropriate circuits later. Disconnect the external wiring at the terminal blocks on the old interface PCB and remove and discard the old Interface PCB.
- 7) If the circuit is being used as an Output then disconnect and remove the Line Module. Leave the Line Module fitted if a channel is being used as an Input, this is because the EOL resistors on the module are utilised by the VSINTL-PCB.
- 8) Fit the VSINTL-PCB inside the enclosure using the fixings screws provided. Then connect the wires to the respective Output / Input and loop circuits.

Loop data recovery following power up

i If there is a problem with backed up data recovery then do a "forced" recovery followed by a new backup of the loop.

- 1) Check to ensure a short MCC is fitted inside the control panel having software at: V4.10 or greater V3.7 or greater.
- 2) Check to ensure the short LPC's are fitted inside the control panel having software at: V4.11 or greater V3.81 or greater.

- 3) Output channel:
Where a channel is used as an Output then check to ensure the external wires can reach the output terminals on the VSINTL-PCB. Note the Line Module is no longer required.

i If the wires are too short and cannot reach the VSINTL-PCB, then a bridging terminal block (not supplied) may be required inside the enclosure.

Input channel:
Where a channel is used as an Input then the Line Module can be reused as the end-of-line resistors for the input are already fitted on the module. The external cable can remain intact and connect directly to the corresponding input on the VSINTL-PCB.

- 4) Convert the VSINTL-PCB to a backward compatible interface using the V1.04 Interface Programmer (S4-INTERFACE-PROG).
- 5) Power down the interface from the control panel and then open the interface enclosure cover.
- 6) Label all the wires to ensure they are reconnected to the appropriate circuits later. Disconnect the external wiring at the terminal blocks on the old interface PCB and remove and discard the old Interface PCB.
- 7) Fit the VSINTL-PCB inside the enclosure using the fixings screws provided. Then connect the wires to the respective Output / Input and loop circuits.

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- 3) Convert the VSINTL-PCB to a backward compatible interface using the V1.04 Interface Programmer (S4-INTERFACE-PROG).
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- 6) Fit the VSINTL-PCB inside the enclosure using the fixings screws provided. Then connect the wires to the respective Output / Input and loop circuits.

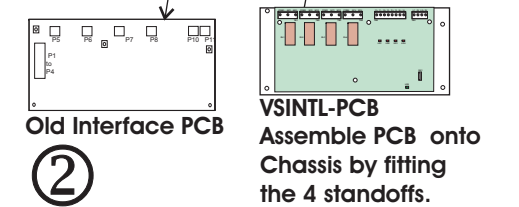
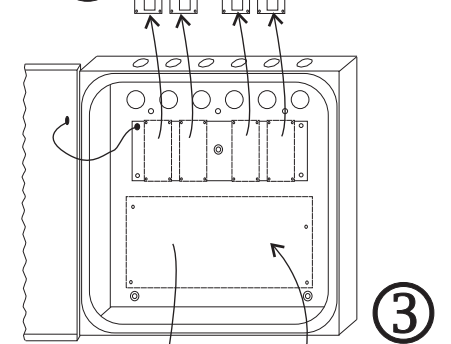
Loop data recovery following power up

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PCB replacement and wiring

Replace PCBs

- 1) Line Modules

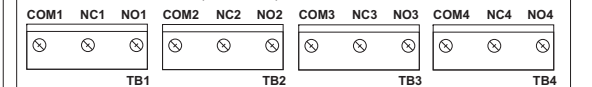


Follow steps 1 and 2, see overleaf.

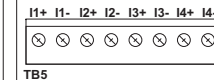
Wiring the Input, Output and loop circuits to VSINTL-PCB

i A channel can only be used as either input or output not both.

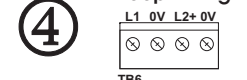
Output channels (circuits)



Input channels (circuits)

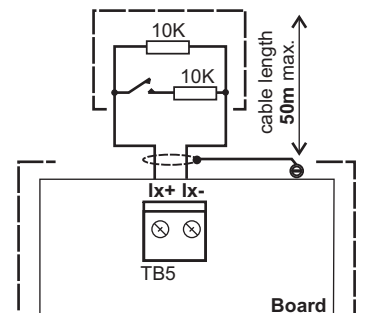


Loop wiring



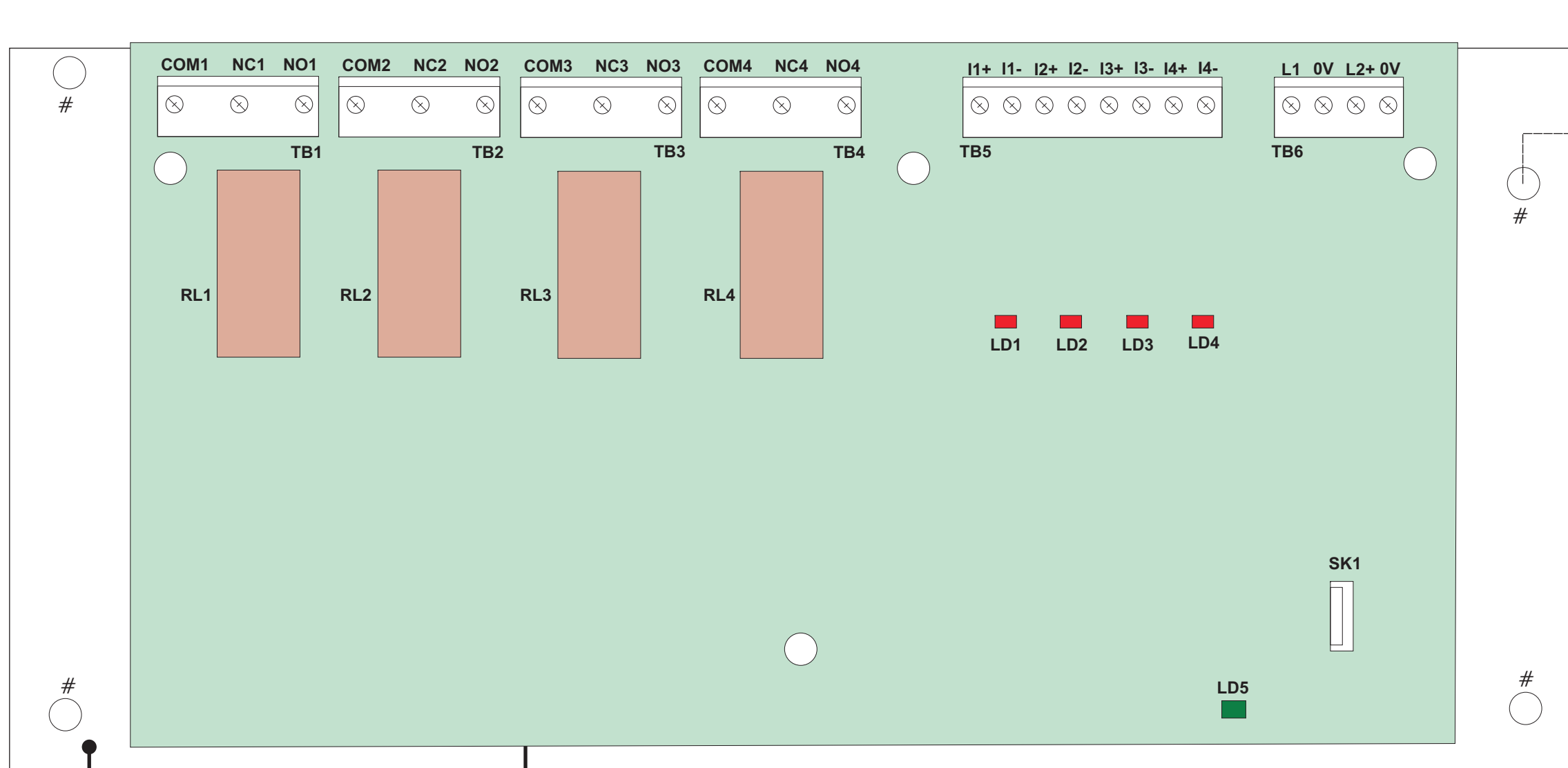
Input End-of-Line requirement

Associated input can be either: normally closed or normally open

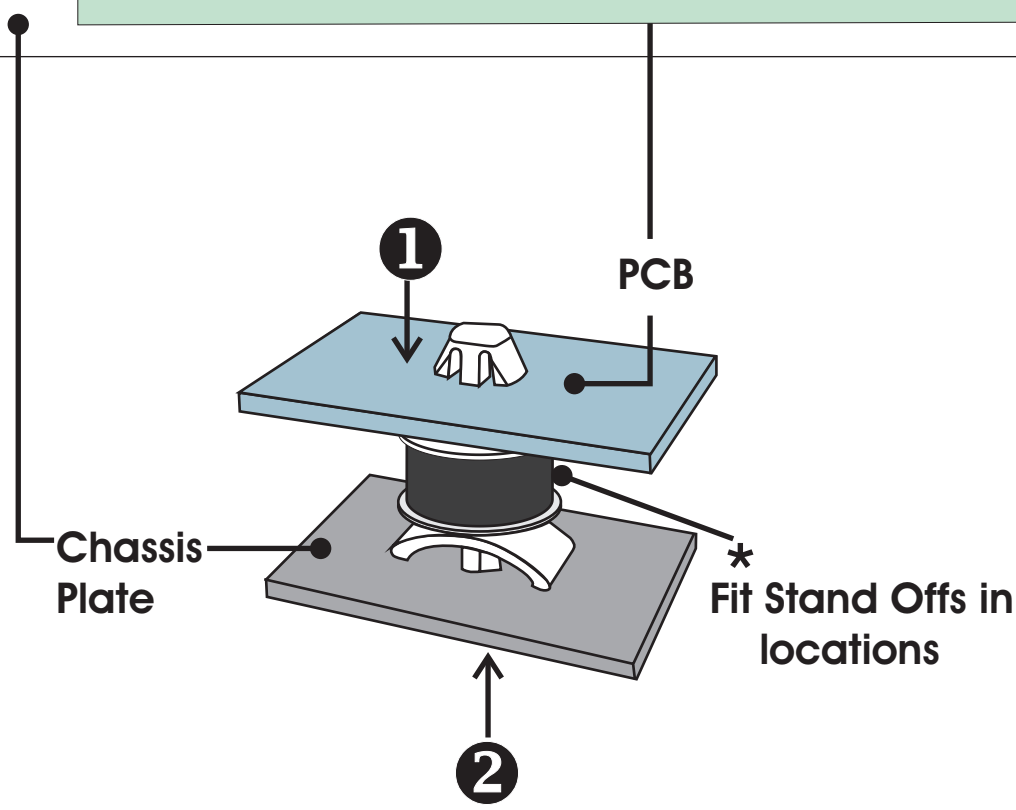


Mains Switching Interface Unit

Input Channel (TB5)
x - 1, 2, 3 or 4 (at a 4-channel unit)



4 x M3 screws with shake proof washers for fixing the chassis into the enclosure
 ③



i Note the 'OUTPUT' terminal markings are different and are dependent on when the Mains Switching Interface products were manufactured.

Products manufactured Post September 2013

Mains Switching Interface Unit

Output Channel:
 x - 1, 2, 3 or 4 (at a 4-channel unit)
 TB1 to TB4
 x - 1 (at a 1-channel unit)
 TB1

Products manufactured before September 2013

Mains Switching Interface Unit

Output Channel:
 x - 1, 2, 3 or 4 (at a 4-channel unit)
 TB1 to TB4
 x - 1 (at a 1-channel unit)
 TB1

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.

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