

ID2000 Series Isolated RS232 Interface PCB

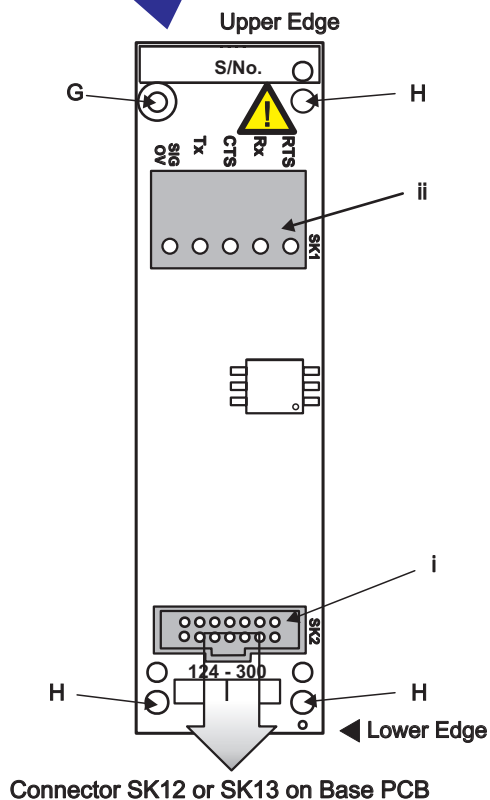
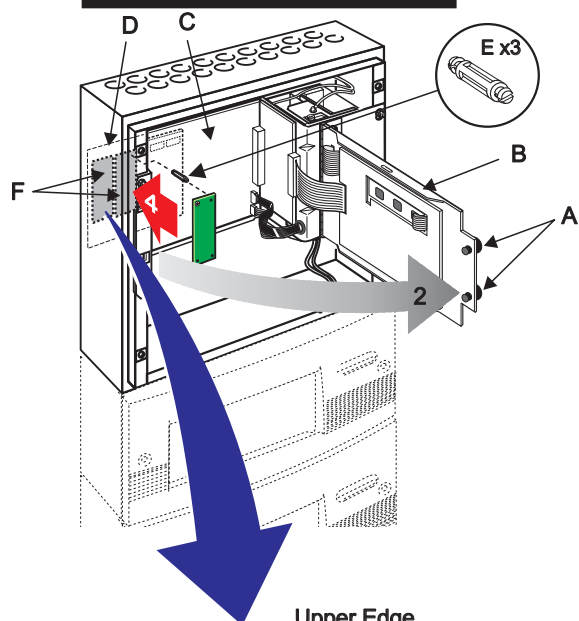
The ID2000 Series Isolated RS232 Interface PCB kit (PN: 020-478) enables the panel to be connected to an external printer, terminal or 3rd-party-protocol station. The Isolated RS232 Interface PCB is located at the left-hand side of the Base PCB. It can be mounted through either an 'original' Base PCB (PN 124-180) (via one metal snap-top spacer provided by the chassis, and three nylon snap-top spacers supplied in the kit) or through a 'revised' Base PCB (PN 124-193) (via one metal spacer and Posi SEM screw, and three nylon snap-top spacers supplied in the kit). To quickly identify which Base PCB you have, check whether the metal snap-top spacer is present. This document provides instructions for fitting the Isolated RS232 PCB to both versions of the Base PCB.



WARNING - Make sure you have a PC back-up of the current configuration data and ALL power to the ID2000 Series control panel has been disconnected



ATTENTION
OBSERVE PRECAUTIONS
FOR HANDLING
ELECTROSTATIC
SENSITIVE
DEVICES



Check Your Equipment....

Taking suitable anti-static precautions, such as wearing a suitably-grounded wrist strap, remove all packaging and inspect for any damage that may have occurred during transit. If no damage is evident, proceed using the instructions below. In the unlikely event that damage has occurred, DO NOT PROCEED, contact your supplier and refer to the ID2000 Series Installation & Commissioning Manual (ref. 997-214-XXX).

Making sure the mains supply has been isolated, the batteries disconnected and observing all necessary precautions, fit the Isolated RS232 Interface PCB as follows:

Procedure for Fitting the Isolated RS232 Interface PCB to an 'original' Base PCB

- 1 Using a 3mm hexagonal socket key, release the four fasteners to remove the Front Cover moulding (if applicable). Place the cover in a protective bag and store safely.
- 2 Using a suitable-sized coin, release the two quarter-turn fasteners (A), located at the left-hand side of the chassis' hinged door (B). Open the door to gain access to the Main Chassis PCB enclosure (C) containing the Base PCB (D).
- 3 Fit the three supplied nylon snap-top spacers (E) in the Base PCB in either position (F) indicated at left by pushing them firmly into place until they snap into position. The fourth fixing point is provided by the metal snap-top spacer already fitted through the Base PCB.
- 4 Observing anti-static precautions, and with the RS232 Interface PCB correctly orientated (see drawing below), carefully offer it to the four snap-top spacers described in step 3. Starting with point G and working in a clockwise direction, push the PCB on to the remaining three snap-top spacers (positions H) until secure.

Care MUST be taken when offering the RS232 PCB to the locating snap-top spacers!

Ensure ALL 4 snap-top spacers have snapped into place securely on the Isolated RS232 Interface PCB.

- 5 Make all necessary wiring connections to the RS232 Interface PCB as described below under 'Cables and Wiring'.
- 6 If no other PCB(s) require fitting, the mains power and battery connections can now be made - refer to the ID2000 Installation & Commissioning Manual (ref. 997-214-XXX) for details.
- 7 Close the hinged door on the main chassis and, secure using the two quarter-turn fasteners.
- 8 Fit the Main Cover moulding - reverse the procedure described in step 1 above.
- 9 To replace the RS232 PCB reverse the above procedure, steps 1 to 7.

Cables and Wiring

Make the following wiring connections to the Isolated RS232 Interface PCB:

- i. Ribbon Cable at socket SK2 from Base PCB sockets SK12 or SK13.



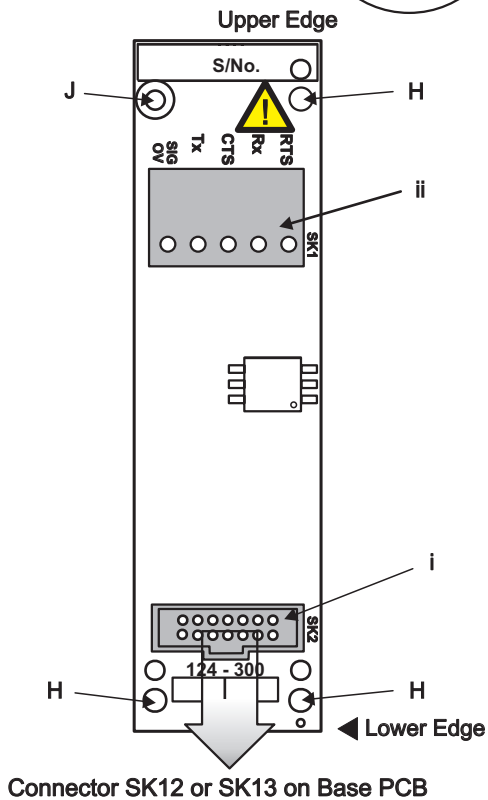
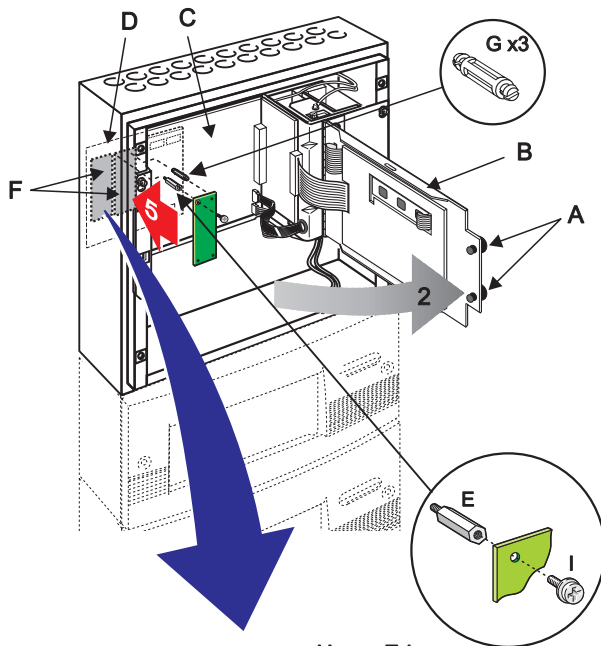
CAUTION: This RS232 port is intended for connection to external equipment such as a printer, terminal or 3rd-party-protocol equipment. All such equipment must be suitable protected against electric shock. Voltages on the interconnections must not exceed 42V peak or 60V dc under normal or single fault conditions.

- ii. Use a screened multi-core cable to connect external 3rd-party equipment at socket SK1. The SIG 0V terminal should not be connected to the screen. The screen should be connected to the back box either through a suitable metal gland or using the optional earth termination block.

Note: Refer to the ID2000 Series Installation & Commissioning Manual for details of the RS232 Interface PCB socket SK1 pin functions to supplied two-part connector.

ID2000 Series Isolated RS232 Interface PCB

This procedure describes how to fit the Isolated RS232 Interface PCB to a 'revised' Base PCB. See overleaf for instructions to fit the Isolated RS232 Interface PCB to an 'original' Base PCB.



RS232 PCB - PN: 124-300

Check Your Equipment....

Taking suitable anti-static precautions, such as wearing a suitably-grounded wrist strap, remove all packaging and inspect for any damage that may have occurred during transit. If no damage is evident, proceed using the instructions below. In the unlikely event that damage has occurred, **DO NOT PROCEED**, contact your supplier and refer to the panel Installation & Commissioning Manual.

Making sure the mains supply has been isolated, the batteries disconnected and observing all necessary precautions, fit the Isolated RS232 Interface PCB as follows:

Procedure for Fitting the Isolated RS232 Interface PCB to a 'revised' Base PCB

- 1** Using a 3mm hexagonal socket key, release the four fasteners to remove the Front Cover moulding (if applicable). Place the cover in a protective bag and store safely.
- 2** Using a suitable-sized coin, release the two quarter-turn fasteners (A), located at the left-hand side of the chassis' hinged door (B). Open the door to gain access to the Main Chassis PCB enclosure (C) containing the Base PCB (D).
- 3** Fit the metal spacer (E) through the Base PCB to the top left fixing position of either PCB mounting location (F). Tighten down fully using a 5.5mm hexagonal socket tool.
- 4** Fit the three supplied nylon snap-top spacers (G) through the Base PCB by pushing them firmly into place until they snap into position.
- 5** Observing anti-static precautions, and with the RS232 Interface PCB correctly orientated (see drawing below), carefully offer it to the three snap-top spacers described in step 4. Working in a clockwise direction, push the PCB on to the snap-top spacers (positions H) until secure.

Care MUST be taken when offering the RS232 PCB to the locating snap-top spacers!

Ensure ALL 3 snap-top spacers have snapped into place securely on the Isolated RS232 Interface PCB.

- 6** Use the M3x8 SEM screw (I) to secure the RS232 PCB to the metal spacer (position J).
- 7** Make all necessary wiring connections to the RS232 Interface PCB as described below under 'Cables and Wiring'.
- 8** If no other PCB(s) require fitting, the mains power and battery connections can now be made - refer to the panel Installation & Commissioning Manual for details.
- 9** Close the hinged door on the main chassis and secure using the two quarter-turn fasteners.
- 10** Fit the Main Cover moulding - reverse the procedure described in step 1 above.
- 11** To replace the RS232 PCB reverse the above procedure, steps 1 to 9.

Cables and Wiring

Make the following wiring connections to the RS232 Interface PCB:

- i. Ribbon Cable at socket SK2 from Base PCB sockets SK12 or SK13.



CAUTION: This RS232 port is intended for connection to external equipment such as a printer, terminal or 3rd-party-protocol equipment. All such equipment must be suitable protected against electric shock. Voltages on the interconnections must not exceed 42V peak or 60V dc under normal or single fault conditions.

- ii. Use a screened multi-core cable to connect external 3rd-party equipment at socket SK1. The SIG 0V terminal should not be connected to the screen. The screen should be connected to the back box either through a suitable metal gland or using the optional earth termination block.

Note: Refer to the panel Installation & Commissioning Manual for details of the RS232 Interface PCB socket SK1 pin functions to supplied two-part connector.