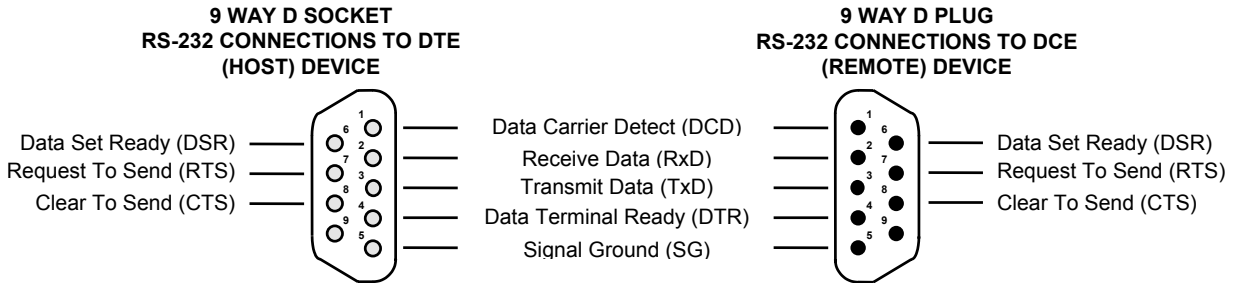


# MODEL 232i9 SIGNAL ISOLATOR



The Model 232i9 Signal Isolator is a compact, plug-in unit providing a data path with **full electrical isolation** between any two devices connected for bi-directional serial data communication.

The Model 232i9 Isolator Module is equipped with two 9 way, D type connectors, one male plug and one female socket. The Isolator can therefore be directly interposed in any suitably configured RS-232 communications circuit. The pin-out configuration is in accordance with the EIA/TIA 574 standard.



Both ports are line powered. The socket side from DTR/RTS (pins 4 and 7) and the plug side from the DSR/CTS (pins 6 and 8) control lines of the connected devices, so eliminating the need for external power supplies.

Internal jumpers allow selection of RTS, CTS, DTR, DSR and DCD control signals for hardware handshaking. The user must select the appropriate handshaking mode for his application. Due to the adapter's size, it was not possible to implement isolation for all of the handshaking lines. It may be necessary for the user to determine what the system at either end of the link requires from the handshaking lines. The figures below show how the adapter can be configured to accommodate a variety of handshaking modes. Please note the end to which the handshaking applies, e.g. Figure 4 loops DTR to DSR at the host end (9 way socket), and the equivalent lines are not looped at the remote end. Figure 1 below shows the default jumper settings for RTS-CTS handshaking, and Figures 2 to 5 show the other possible hardware handshaking configurations.

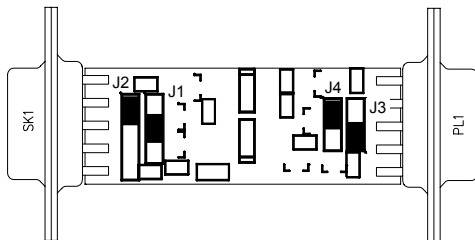


Figure 1 Jumper settings for CTS-RTS handshaking

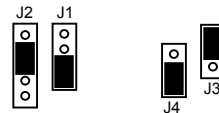


Figure 2 Jumper settings for DSR-DTR handshaking

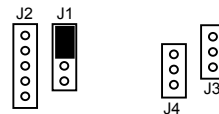


Figure 3 Jumper settings for host CTS-RTS loopback

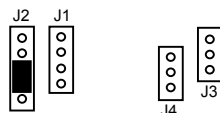


Figure 4 Jumper settings for host DSR-DTR loopback

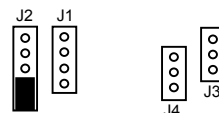
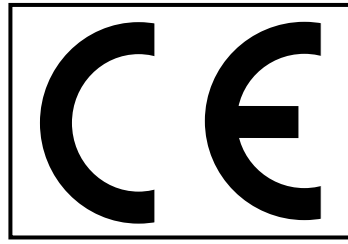


Figure 5 Jumper settings for host DTR-DCD loopback



BS EN ISO 9001  
Certificate No. FM 15094



Affirmed by  
Declaration of Conformity

Amplicon products are designed and manufactured in the United Kingdom under a quality system approved by the British Standards Institution

**DECLARATION OF CONFORMITY**


**AMPLICON LIVELINE LIMITED  
CENTENARY INDUSTRIAL ESTATE  
HOLLINGDEAN ROAD  
BRIGHTON BN2 4AW UK**

We declare that the product(s) described in this Instruction Manual are manufactured by Amplicon Liveline Limited and perform in conformity with the following standards or standardisation documents:

**Electro Magnetic Compatibility (EMC):**

EN55022: 1998	Emission Standard
EN55024: 1998	Immunity Standard
EMC Directive	89/336/EMC

Note:- It is the responsibility of the installer to ensure good quality screened cables and metal hoods are used, and correctly terminated, to maintain compliance with the EMC standards stated above.



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