

NEW INTERVOLT RELEASE



Amelec are pleased to release the new interVOLT OI232 level converter for optically isolating any standard PC with an NMEA/RS232 input from the signal source.



Most personal computers communicate with the outside world via a protocol known as RS232. NMEA and RS232 operate on slightly different signal voltage levels. This can cause problems in certain equipment resulting in unreliable communication and possible damage to the PC.

The problem can be overcome by using a suitable interface. There are units available on the market but not all are optically isolated and most are quite expensive. The interVOLT OI232 overcomes these issues and provides other benefits in the process.

The advantages in using an isolated interface are primarily to overcome line noise and interference associated with the common coupling of the ground connection. The optical isolation provides total protection from any physical connectivity thus eliminating the problem of variation in ground levels. In doing so it also protects against inadvertent reverse polarity thus protecting the PC from damage.

Additionally, the increased range in the signal voltage enhanced by the OI232 improves the operating levels making the unit ideal for installing in long cable runs.

The NMEA standard of 0 to 5V is considered sufficient for short cable runs, but over longer distances induced noise and low signal levels can lead to data loss. The OI232 also offers some additional protection in the event of an electrical storm but this can never be guaranteed.

The OI232 utilises a standard D type connector and is supplied complete with the PC interfacing cable for ease of installation. The unit is proudly designed and manufactured in Australia as are all interVOLT products.

PARAMETER	SPECIFICATION
Code number	OI232
Protocol	RS232
Operating Level	-5V/+5V min to -12V/+12V max
Power Supply	Self powered via serial port
Isolation Protection	2000V maximum
Data Capacity	9600 baud
Termination	Din standard 'D' type 9 pin male to female
Operating Temperature Range	0-55°C
Certification	CE mark
Case Dimensions	103mm x 43mm x 24mm (overall)
Case Weight	55 grams
Interface Cable Length	1.8 mtr