

# Product Data Sheet

## Nexus Access Control RS485 Communications

The Nexus modular access control range from Morley Electronics is available with optional communications, including RS232, RS485, LonWorks standard communications Transceivers and RS485/LAN network adapters. Nexus is an on-line system, in that it reports to and is programmed by, management software designed and supplied by Morley Electronics. Software used to manage Nexus installations is known as the 'Visikey' range.

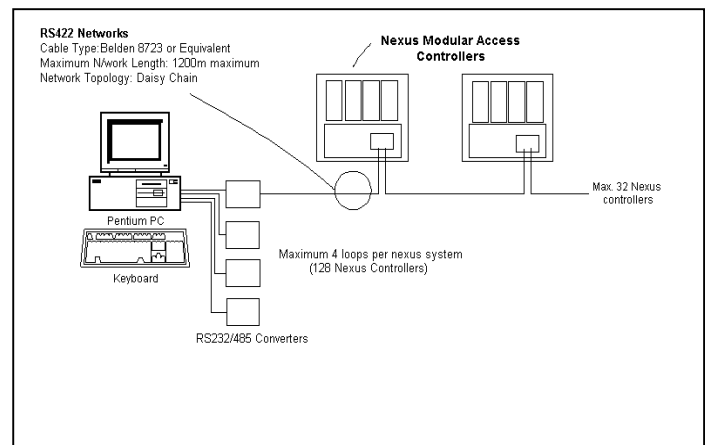
Of course, as Nexus is a distributed intelligence system, even in the event of the failure of a PC, or a communication breakdown, Nexus will continue to function and control the access system.

The RS485 structure calls for a Morley RS485 interface module (Part no. 102001) within each Nexus controller. A maximum of 32 Nexus controllers can be connected to an RS485 loop, and each system can have a maximum of 4 loops.

Each loop (max. 32 Nexus controllers) must have an RS485 /232 converter, (Part no. 104008) which is used to interface to the access management PC; by connecting into the Serial port of the PC. Where multiple loops are required, more than one serial port card will be required in the PC.

The total RS485 network length must not exceed 1.2KM.

RS485 communications are proven and reliable, with very many Nexus sites operating continually, without interruption. The following notes overview the parts and communication schemes available.

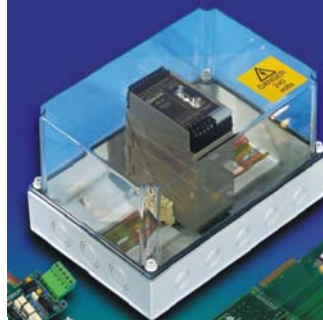


## Nexus RS485 Module



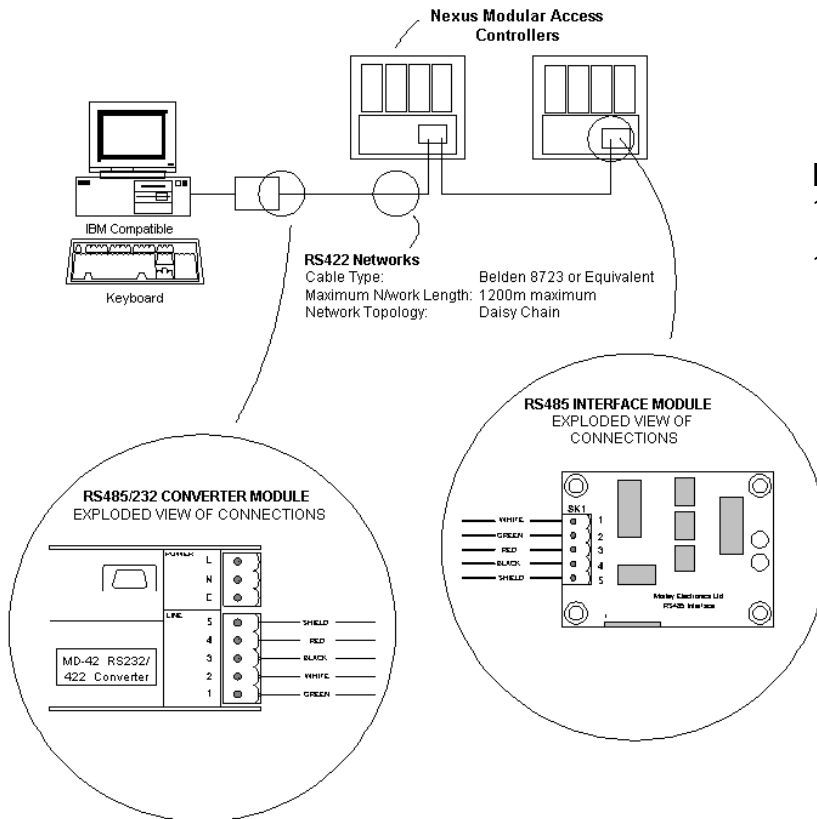
The RS 485 module fits into the socket connection provided on top of the Nexus processor module and is affixed to the radiation emission 'can' covering the processor board using the screws provided

## RS232 to RS485 Converter



The converter is used to connect the RS485 communications from Nexus, to the R232 port of the access management PC. The converter is located no more than 11M from the PC.

### Nexus RS485 Connections Schematic



### Part Numbers

- 104008 – Morley RS232/485 Converter & Housing
- 102001 – RS485 Interface Module

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