

Product Data Sheet

Nexus Modular On-Line Access Control

Our customers asked us to develop an access control system which would be able to meet the varied and complex demands of large installation system specifications, yet could also be easily applied to a smaller 2-8 door system without any loss of performance. We were also asked to use our extensive knowledge to uncover ways of reducing installation and commissioning costs and improving operating efficiency.

In response to this challenge, Morley design engineers developed the Nexus range of online controllers which achieves all of the above and a great deal more.

The all-new Nexus modular electronic access controller establishes Morley as the market leaders in innovative product development and brings the most powerful and flexible access controller to the installers and users. The Nexus is incredibly easy to install and offers a level of flexibility not found in other door controller.

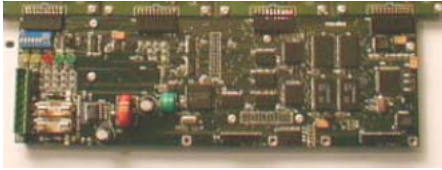
Key features of the Nexus range include;

- Reduced cabling requirements and installation costs using Nexus control
- Reduced control system costs requirements using Nexus modular control
- No on-board power supply. Many access controllers provide on-board power supplies for controller and output power, yet systems power demand profiles vary so widely, according to reader and output power consumption, that in most systems, the power supply is either over or underrated. Nexus controllers do not have on-board power supplies but do carry all input protection and source protection to enable designers and installers to determine precise system power requirements and choose power supplies to match system demand
- Morley manufactures a range of purpose designed and built access control power supplies
- 2 reader input modules
- Expansion capability to take Nexus from 2 to a maximum of 8 readers
- Readily accepts all common reader types
- Fully configurable on board I/O with expansion options
- Optional Communications: Echelon, RS232, RS485 and LAN Networkable. Morley Electronics are experts in systems solutions and our range of proven communications modules will meet with almost all types of access control installations.



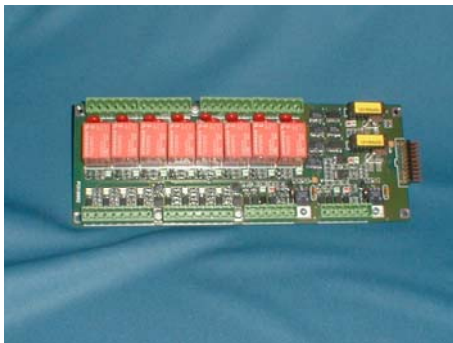
Nexus Processor Module

– *The heart of control*



Nexus systems are controlled and connected using the ubiquitous Nexus processor control board, which is flexible and powerful enough to provide up to eight on board reader controls and up to 8 input/output relay control. The processor board contains on board power circuitry and interfaces with other control systems via a range of optional communications modules (see below).

Dual Reader Modules



Nexus is a modular controller, the essence of which is an incredibly flexible 2 door reader module, which may be supplied with the controller or as an addition to an existing system, enabling users and installers to purchase only the reader modules required for the installation, safe in the knowledge that expansion is an easy, cost effective and simple process, saving both time and cost.

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Morley Electronics operates a policy of continuous product improvement and reserves the right to change products without notice

Features include;

- User database with capacity of 23,000 users, expandable to 65,000 users
- Up to 4 dual reader modules per controller
- 128 Nexus controllers with RS485
- 256 Nexus controllers with Echelon Lonworks transceivers
- 31 Daytypes
- 31 Weektypes
- 2 Anti-passback levels (On-line). Three APB types IN, OUT and NU (Off-line)
- Supports simultaneous multi-technology access
- Supports up to 8 card readers and 8 keypads which can be any combination of Watermark, Wiegand, Softmagnetics, etc.
- Nexus systems can be expanded using additional reader modules (max. four)
- System watchdog to monitor microprocessor operation
- Optional 4 or 8 non-dedicated relays per dual reader module
- Optional 4 or 8 non-dedicated clean contact inputs per dual reader module
- Communications; Echelon, RS232, RS485 or current loop (all optional)

Environmental Specification

Operating temperature

- 0 to 55°C
- 5 to 80% RH, non-condensing.

Storage temperature

- 0°C to 60°C

Physical specification

- 350W X 350H X 75D (all mm.)

Presented by

