IC 2001
Intelligent Controller

The IC2001 controller suits all high security environments, requiring integrated online access control and alarm monitoring from medium size to complex multi-site installations.

Key Features

- 2 door/4 reader controller
- 20,000 cardholders standard (upgradable to 120k)
- Redundant communication bus (option)
- Plug-in input, output and TCP/IP on board option
- Compatible with many types of reading technologies
- 8 inputs, 4 relay outputs
- 3 additional inputs for monitoring PSU, Battery and Tamper
- FLASH upgradable memory
- Full LED diagnostics

The IC2001 intelligent controller is a cost effective solution to manage 2 doors with reading in and out.

High capacities are reached via the IC2001's RAM, the standard IC2001 can be upgraded to 32,000 cardholders, otherwise a bigger 2MB RAM is used at the manufacturing stage to give the user the option to upgrade to 120,000 cardholder.
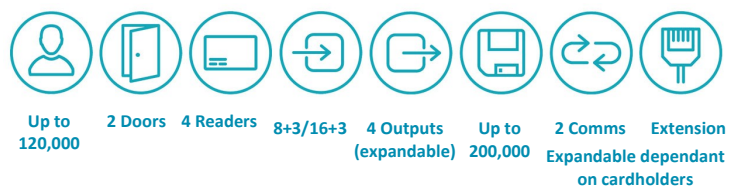
The controller has 8+3 inputs and 4 outputs

All 8 inputs are supervised, 4 state. It can be extended to 16 inputs and 64 outputs with the addition of a plug in extension board and 3 satellites extension Boards. The 3 additional default inputs are used for cabinet tamper, battery low and power fail monitoring.

Multiple communication channels:

* Serial RS232 or RS485 communication port
* Optional second RS485 communication bus specially developed for redundant communication
* TCP/IP interface available from on board built in interface or a plug in extension board

Boosted communication security is achieved through an optional second serial bus for communication with the host. Communication encryption and use of specific technologies, providing maximum protection against communication loss which also reinforces the security

| Up to 120,000 | 2 Doors | 4 Readers | 8+3/16+3 | 4 Outputs (expandable) | Up to 200,000 | 2 Comms Expandable dependant on cardholders | Extension |

IC 2001

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Technical Specification

Controller Specification

Number of Doors	2
Number of Readers	4
Relay Outputs	4
Alarm Input	8 + 3
Event History	200,000
Card Holders	20,000 (upgradable 120K)

Physical

IC2001 (PCB)	175 (H) x 160 (W) x 20 (D)mm
IC2001 E5 (Boxed)	340 (H) x 430 (W) x 85 (D)mm
IC2001 IP (PCB)	175 (H) x 160 (W) x 20 (D)mm
IC2001IPE5 (Boxed)	340 (H) x 430 (W) x 85 (D)mm

Environmental

Operating Temperatures	-10°c to +55°c

Electrical

Power Supply	12vDC
Input Current	120mA @ 12vDC
Battery Backup	12vDC 7.2Ah

Operational

Communication	RS232, RS485, TCP/IP Wireless 485

E5 Power Supply Enclosure

Total Available Current	5 Amp
Number of 12vDC outputs	7
Maximum lock power	1.6 Amp per lock

Part Numbers

IC2001 E5	2 door/4 reader controller with Flash Memory. Housed within a 5A 12vDC Power Supply.
IC2001IP E5	The same as above with embedded TCP/IP connection.
IC2001	IC2001 PCB Only.
IC2001IP	IC2001IP PCB Only.

Options

EXT IRLED	Plug in extension board with 8 supervised inputs, 4 relays.
EXT TCP-IP	Extension board offering TCP/IP interface, RS485 bus to other IC controllers.
EXT TCP-IP-IR	Plug in extension board with 8 supervised inputs, 4 relays, TCP/IP interface, RS485 bus to other IC controllers.
RLY-12	12 relay extension board.
RCB	Redundant communication bus kit for adding a 2nd comm bus
USB/485-SEN	USB to 485 communication interface