



# ACCESS CONTROL NODE

The 3GS high security intruder alarm system integrates radio lone worker and paging system in one networked system. Access Control is the latest addition to the system, a card access system that allows complete and flexible control of up to 64 doors. Each Access Control Node on the 3GS Ringnet controls 2 doors, each with entry and exit readers (achieved with a plugin exit reader PCB).

## Access Control

Access Control allows for up to 2000 access cards, 64 doors, 250 door groups and 16 time zones.

Access Control cards have pre-set site codes, and can be assigned a PIN code, door groups (sets of doors with similar attributes) and pre-programmed time zones (each divided into 4 time slots). Doors can be set for manual override and open/lock inhibit attributes, and are monitored for attempts at jamming or forced entry. The anti-passback feature on doors ensures that the same card must be used to enter and exit the door. When set to a group of doors, anti-passback forms a secure perimeter within the alarm area and enables effective card tracking.

All Access Control card, door and node activity can be logged to the 3GS System log (of 1000 events) and / or the Access log (300 events). Exceptions are also logged, including:

- Unassigned card
- Door not assigned to card
- Out of Time Zone
- Invalid PIN Code
- Door open time exceeded
- Door not assigned to card
- Door forced
- PIN code alert
- PIN code time-out
- PIN code duress
- Anti-passback

Technical faults, such as Node Mains Fail, Battery Problem, or Fuse Fail are also recorded in the Access Log.



## Access Control Node

The Access Control Node is a 2-door controller featuring:

- 4 reader capability supporting most reader types
- Pinpad support
- 2 door inputs (2K2 EOL)
- 2 door outputs (2A relay)
- 2 relay outputs
- 2 exit switches(1 per door)
- 2 zone intruder zones (2K2 EOL)

The ACN is mains-powered, with 12V battery backup.

The ACN is part of the 3GS Ringnet, and is connected using either standard alarm cable (200 m between nodes) or screened Belden-type cable (1000m). Up to 32 Access Nodes (64 doors) may be connected to a single 3GS system, as well as up to 200 alarm zones. The ACN is designed to be able to work in stand-alone mode, and continues to control doors if Ringnet communications fail.

The Access Node is compatible with:

- Most commonly available proximity readers
- Mag Stripe card readers (Hi Co Mag Stripe)
- Digital pinpads
- Complete hands free systems

The ACN features an Infra-Red Receiver for interfacing with the Hand-Held Terminal, thus simplifying installation, monitoring and servicing.

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## Technical Specifications

### General

Mains Supply:	230Vac + 10% - 15%
Power consumption (quiescent):	45mA
Power Consumption (max):	150mA
Max current drain:	1A
Memory Backup:	On-Board EEPROM
Cabinet Dimensions:	233mm x 357mm x 80mm
Temperature Range:	-10° C to +55° C
Humidity Range:	0% to 90% (non-condensing)
Communications:	RS-485 at 307K baud (Ringnet) and Infra-Red via the HHT.
Backup Power Supply:	Sealed 12V lead-acid battery to 6.5 Ah recommended (supplied separately).

### Fuses:

Lock Supply:	1A
Battery:	2A
Auxiliary:	1A.
Reader Supply:	1A.

### I/O Tamper:

On-board Zones:	2 dual end of line resistors monitored
On-board Outputs:	2 single-pole changeover 2A relay
Front Tamper:	On-board Microswitch (over-rideable)
Back Tamper:	On-board Microswitch (over-rideable)

### How to order:

Product	Code
Access Node PCB	1343
Access Node Complete	1342
Exit Reader Interface	5418

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