

The Control Module is the foundation of all Concept 4000 hardware systems.

The Concept 4000 Control Module delivers unrivalled security power with its integrated combination of intruder alarm, access control, building automation and security communications features.

The flexible, modular design of the Concept 4000 architecture allows the expansion of a single control module to a network of hundreds of modules, 50,000 users, 2000 inputs, thousands of outputs, 250 areas and 250 doors.

The Control Module comes with 16 zone inputs, 2 outputs, an on board switch mode power supply, LAN port, modem, serial port, siren and relay outputs.

Expansion boards can add an extra eight outputs directly to the Control Module. Further expansion and functionality is realised with the addition of expansion modules which are connected to the Concept 4000 Control Module using a secure, encrypted RS485 LAN.



A flexible platform that can accommodate projects from a domestic installation right up to a multi-faceted high-rise building management system.

Expansion options

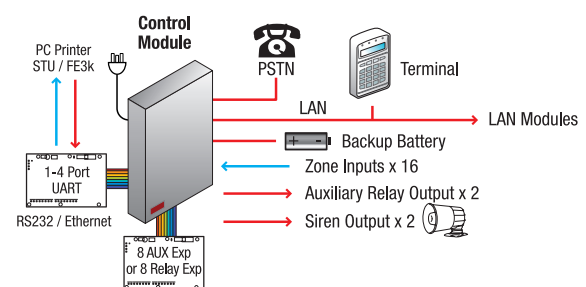
- 8 Relay expander board
 - 8 auxiliary output expander board
 - 1-4 port RS232/Ethernet UARTs
- see the "Control Module Expansion" Data Sheet

Features:

- A single Concept 4000 Control Module presents a cost effective entry level Security and Access Control hardware platform – massively scalable with addition of other hardware modules networked to the Control Module
- Full Security / Intruder alarm functionality
- Complete range of Access Control functionality
- Comprehensive building automation support
- 16 on board zone inputs
- Expandable from 2 on board auxiliary outputs to 10 on board outputs
- Installer selectable memory configurations allow optimisation to meet differing project requirements
- System inputs monitor LAN status, AC power, battery condition, cabinet tamper, siren tamper, door status and communications problems on all modules where applicable
- Inputs can be assigned to multiple areas
- Different processing requirements can be specified for each area to which a particular input is assigned
- On board diagnostic LEDs to assist with commissioning and troubleshooting
- Facilities for automatic and/or manual testing of inputs
- 6500 event, non-volatile review buffer

Connectivity

The control module is the heart of a Concept 4000 system.



Memory Upgrades & Special Options

| Part Number | Item |
|--------------|---|
| 995015 | 128K Memory Upgrade Chip |
| 995016 | 512K Memory Upgrade Chip |
| 995017 | 32K Memory Replacement chips |
| 995015P8 | 128K Memory Expansion + Programmable Site Code Support |
| 995016P4 | 512K Memory Expansion + High Level Lift Interface* |
| 993401 | Custom Memory Configuration * |
| 995101AUFULL | Firmware Upgrade |

Note: * Please consult Inner Range for more details prior to purchasing items marked with an asterisk.

SPECIFICATIONS

Physical

| | |
|--------------------------|--|
| Cabinet Dimensions | 460(L) x 358(W) x 85(D) (mm) |
| PCB Dimensions | 200(L) x 200(W) x 45(D) (mm) (Inc. heat sink) |
| Weight | 9.5Kg (in Medium Low Profile Enclosure) |
| Installation Environment | 0°C - 40°C @15% - 85% Relative humidity (non-condensing) |
| Cabinet Battery Bracket | To suit 12V 7AH Sealed Lead Acid battery |

Electrical

| | Plugpack and PCB versions | Transformer Versions |
|----------------------|--|----------------------|
| Mains Input Voltage | 240VAC 50Hz | 240VAC 50Hz |
| Mains Input Current | 100mA | 500mA |
| Input Voltage to PCB | 16-18VAC | 16-18VAC |
| Fuse Protection | Separate fuses for battery, Siren 1, Siren 2, LAN & Detector Power | |

Current Consumption

| | | |
|--|-------|-------|
| Total Current Limit | 1.3A | 2.2A |
| Operational Current (No peripherals connected) | 275mA | 275mA |
| Recommended current allowance for battery charging | 300mA | 300mA |
| Available Current (for detectors, auxiliaries, relays, etc). | 700mA | 1.2A |

Inputs

| | |
|----------------------|-----|
| Zone Inputs | 16 |
| Cabinet Tamper Input | Yes |

Outputs

| | |
|--------------------------|---|
| Siren Outputs | 2 (Max load: 2 x 8 Ohm, 10 Watt siren speakers) |
| Outputs (Open Collector) | 2 (Expandable to 10 using the 8 Auxiliary Expander board-995055) |
| Relays | Expandable to 8 with optional Passive Relay board -995084 - replaces Auxiliaries 3-10 |

Ordering options

- 995001AU** Concept 4000 (32K) with plugpack in Medium Low Profile Enclosure
995002AU Concept 4000 (128K) with plugpack in Medium Low Profile Enclosure

- 995001AUPS** Concept 4000 (32K) with transformer in Medium Low Profile Enclosure
995002AUPS Concept 4000 (128K) with transformer in Medium Low Profile Enclosure

- 995001AUPCB&K** Concept 4000 (32K) short form kit
995002AUPCB&K Concept 4000 (128K) short form kit

