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
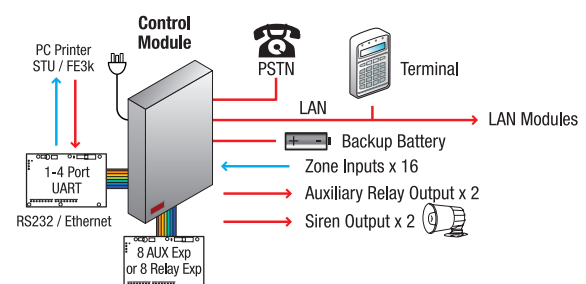- 6500 event, non-volatile review buffer

Connectivity

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

PC Printer STU / FE3k
Control Module
PSTN
Terminal
LAN
1-4 Port UART
RS232 / Ethernet
8 AUX Exp or 8 Relay Exp
LAN Modules
Backup Battery
Zone Inputs x 16
Auxiliary Relay Output x 2
Siren Output x 2

Find your nearest Accredited Dealer at:
http://www.innerrange.com/HowToBuy.cfm

Part No. DATA635001 6/07

1

www.innerrange.com

inner range
Intelligent Security Solutions

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

Find your nearest Accredited Dealer at:
http://www.innerrange.com/HowToBuy.cfm

Part No. DATA635001 6/07

2

www.innerrange.com

inner range
Intelligent Security Solutions