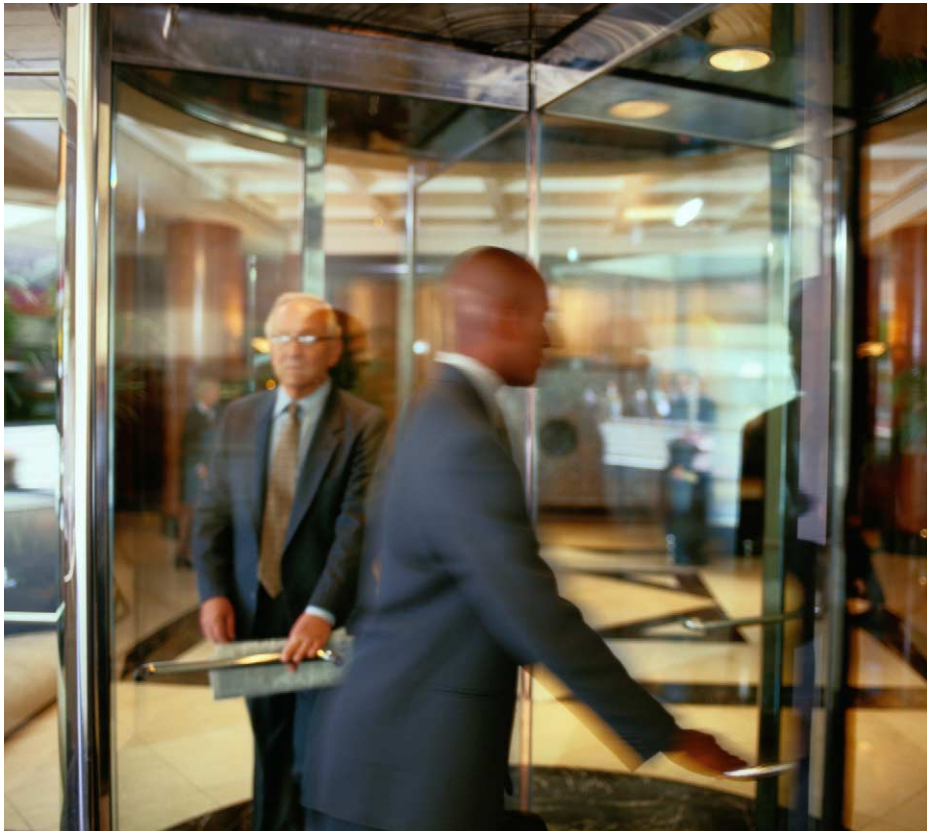


# Controlsoft KeyMaster Lite™ 3.0

Powerful offline access control solution



**Controlsoft KeyMaster Lite is a Windows based offline access control solution that provides powerful security features in an economical entry-level package. The free KeyMaster Lite 3.0 software makes it easy to define system hardware, configure access control permissions, set up anti-passback and zone control, manage cardholder databases, generate reports and export data. All access control decisions are made by AC-310x controllers, which maintain full functionality in offline mode.**

**World class Windows based security solutions**



**Controlsoft's KeyMaster Lite 3.0 software is provided free of charge with AC-310x series offline access controllers. With this user-friendly Windows application you can assign or remove cards, manage zones and access permissions, view access control and system event logs, generate reports, and export data.**

## Multilingual support

Multilingual functionality is fully integrated with KeyMaster Lite's user-level interface customisation. When a user logs on, the interface is presented in the language of the user's choice. Using Controlsoft Translator, installers can customise KeyMaster Lite to provide an interface in more than 70 languages.

## Use powerful scheduling

Scheduling functions allow you to define when employees, groups, zones and controllers are active. You can also use schedules to automate log updates and configuration downloads between the PC and controller.

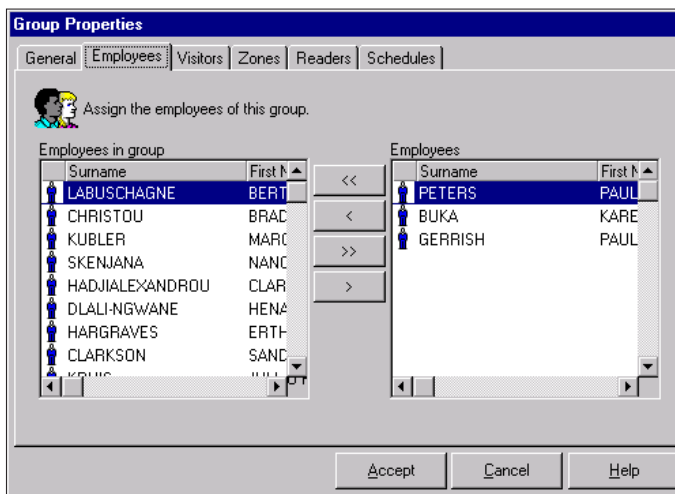
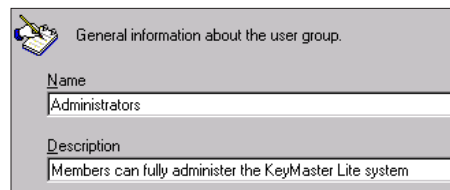
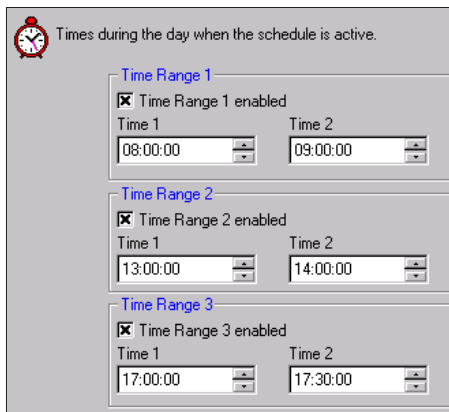
## Manage cardholders effectively

KeyMaster Lite 3.0 gives you the convenience of defining access control permissions for entire groups of cardholders. The employee and visitor managers make it easy to enter cardholder details, assign cards, link cardholders to access control groups, or specify zones and readers where they are allowed access. You can organize cardholders into companies and departments, and specify which operators are allowed to manipulate those groupings.



## Customise your user interface

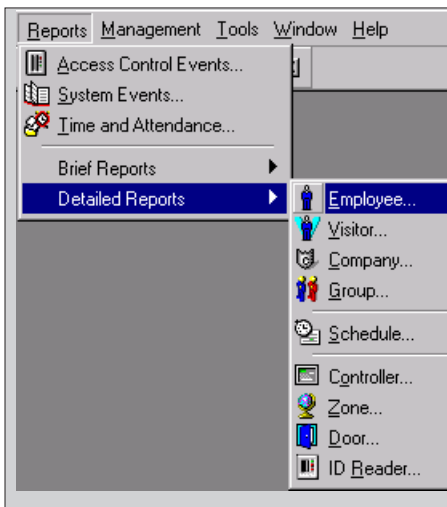
KeyMaster Lite 3.0 is designed for Windows NT and Windows 2000, and has the same "look and feel" as popular office applications. You can customise and place toolbars conveniently to create a user interface that suits your way of working. With user groups, you can control the functionality that each user is allowed to access. When a user logs in, the system retrieves their personal settings and configures the interface according to their permissions and preferences. KeyMaster Lite records details of all actions performed by individual users.



## Get the information you need

KeyMaster Lite uses advanced open database technologies such as OLE DB and ADO to provide efficient storage and retrieval of cardholder information and system activity.

Flexible reporting functions make it quick and easy to generate reports on cardholders and access control events. You can select time periods and specify readers, employees, visitors, zones or groups to include in a report.



You can sort data by any field, create custom filters and save frequently used database queries. The enhanced data export mechanism enables you to create Time and Attendance reports in a variety of common file formats. You can also extract information from access control and system event logs using any application that uses the ADO (ActiveX Data Objects) open database interface.

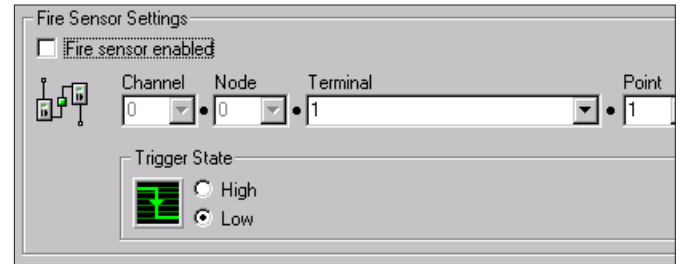
## Easily manage multiple sites

With the "Site Selector", you switch effortlessly between multiple sites. Simply select the site you wish to manage and KeyMaster Lite automatically loads the cardholder database and controller settings you have specified for that site.

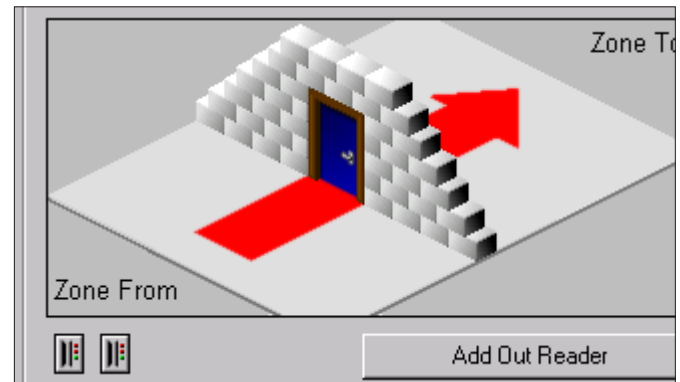
## Take full control of hardware

KeyMaster Lite hardware managers streamline the configuration of controllers, readers, doors, booths, turnstiles and booms.

The software lets you configure functions of system controllers, and set up links between input and output points. Fire sensor inputs may be used to open doors in the event of a fire.



Readers may be grouped into zones to set up zone-based access control with full anti-passback functionality. Or you can implement a combination of zone-based and reader-based control.



You can use KeyMaster Lite 3.0 to enable or disable the logging of "access allowed" events, "access denied" events, and system events (such as alarms) generated on each system controller.

A screenshot of the 'Access Control Events Viewer' window. It displays a table with columns for Date, Time, Name, Location, Result, and Reason. The table contains several rows of event data, including names like GROENEWALD, MELLISA and locations like 'Second Floor Lobby' and 'Accounts'. The results are marked with red 'X' for denied and green checkmarks for allowed access.

Date	Time	Name	Location	Result	Reason
Thursday, September 21, 200	13:52:20	GROENEWALD, MELLISA	From "Second Floor Lobby" to "Accounts" (Acc	Access denied	ID Card is n
Thursday, September 21, 200	13:52:19	WATSON, CARIN	From "Marketing" to "Second Floor Lobby" (Ma	Access denied	Access to z
Thursday, September 21, 200	13:52:18	MATTYS, ANNAMARIE	From "First Floor Lobby" to "Manufacturing" (Ma	Access denied	Access to z
Thursday, September 21, 200	13:52:17	VLOK, MARTINA	From "Manufacturing" to "First Floor Lobby" (Ma	Access denied	Access to z
Thursday, September 21, 200	13:52:16	MOKATE, THOMAS	From "Stores" to "First Floor Lobby" (Stores Boo	Access allowed	Access to z
Thursday, September 21, 200	13:52:15	MAGOMA, RICHARD	From "Research And Development" to "First Fl	Access denied	Access to z
Thursday, September 21, 200	13:52:14	GRANT, KARIN	From "Dispatch" to "Ground Floor Lobby" (Disp	Access allowed	Access to z
Thursday, September 21, 200	13:52:13	SEKHAMANE, DAVID	From "First Floor Lobby" to "Research And Dev	Access denied	Access to z
Thursday, September 21, 200	13:52:11	POTGIETER, TSINDNES	From "Reception" to "Ground Floor Lobby" (Gro	Access denied	Reader is b

**A KeyMaster Lite solution provides the power you need to monitor and control a wide range of security hardware.**

**Bi-directional device support, expandable digital I/O, flexible PC/controller**

**communications options and ample**

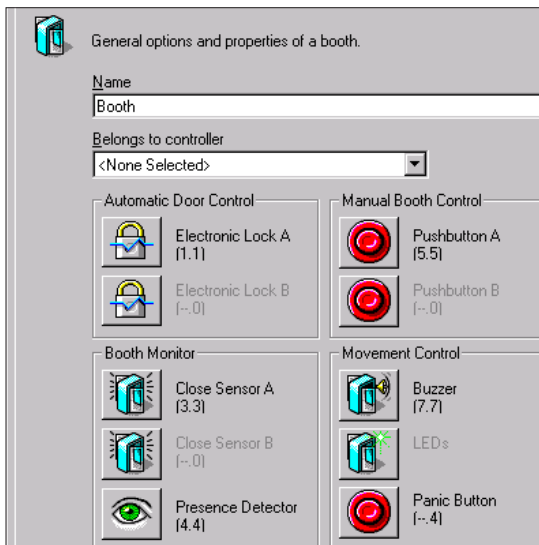
**on-board memory enable you to set up**

**sophisticated access control in a small**

**installation.**

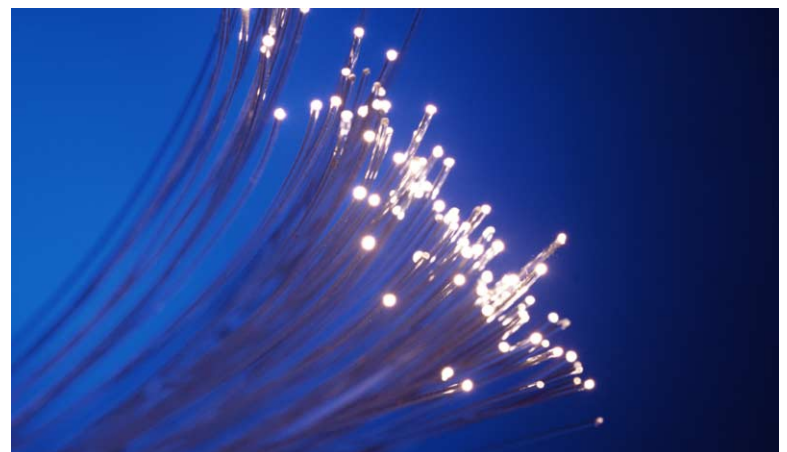
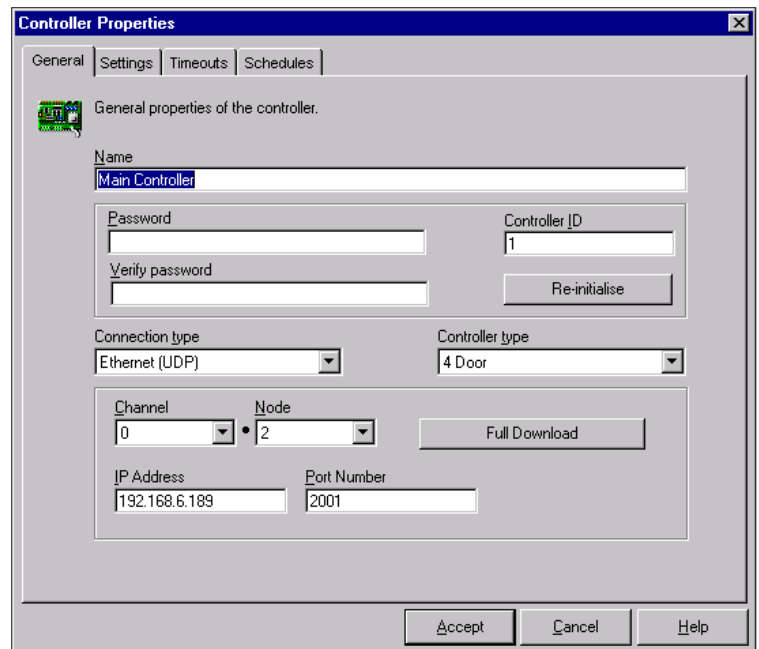
## Booth and turnstile support

Both the KeyMaster Lite 3.0 software and AC-310x series controller firmware support bi-directional portals such as booths and turnstiles.



## Flexible, secure communications

KeyMaster Lite workstations can communicate with controllers via direct serial port connections, Ethernet LAN or dial-up modems. You can even use the Internet to communicate via TCP/IP with controllers anywhere in the world. Hardware-level password protection ensures that only authorised users have access to controllers.



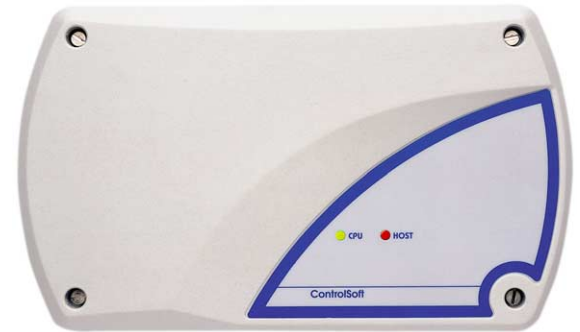
# Advanced hardware features.

## Standalone access controllers

Controlsoft's AC-310x series of standalone 2-door and 4-door access controllers can control proximity scanners, clocking terminals, PIN keypads, remote I/O units and display units connected to the RS-485 interface.

The AC-3104 supports a maximum of eight proximity readers, enabling full anti-passback control of four doors, or control of up to eight doors without anti-passback. A total of sixteen RS-485 devices can be controlled by the AC-3104 system controller. The AC-3104 features eight digital outputs and eight digital inputs.

The AC-3102 system controller can support up to eight RS-485 devices, of which four may be scanners. It can control two doors with full anti-passback, or up to four doors without anti-passback. Like the AC-3104, it provides eight digital outputs and eight digital inputs.



*AC-310x controllers are configured using KeyMaster Lite software. They maintain full access control functionality even when the software is not running or the PC is offline.*

## Expandable I/O and data display

AC-3102 and AC-3104 controllers come standard with 8 opto-isolated digital inputs and 8 changeover relay digital outputs. You can wire door close sensors, rotation sensors, photocells, LEDs and magnetic locks directly to these I/O points — or use AC-3150 I/O expansion boards connected to the controller's RS-485 interface. Data display capabilities can be added by connecting one or more AC-2101 display panels.

## Ample data storage

128KB of non-volatile RAM provide AC-310x controllers with enough memory capacity to store details of up to 2700 cards, as well as transaction logs of 1700 entries.

# Extensive device support.

## RS-485 proximity readers

The AC-1100 is the reader of choice for KeyMaster Lite systems. AC-1100 proximity smart card readers communicate with AC-310x access controllers using a bi-directional RS-485 protocol. This architecture will make it possible to use new read/write card technologies, which are currently in development.

The AC-1100 firmware supports Philips Hitag 1 and Hitag 2, and H-4002 transponders.

Readers are available in black, grey or beige.



## PIN/proximity readers

The AC-1300 combines a proximity smartcard reader and a keypad for the entry of Personal Identification Numbers (PINs). It can be used as an RS-485 reader (like the AC-1100) on the RS-485 scanner network, or as a Wiegand reader (like the AC-1200) in conjunction with an AC-3150 remote I/O unit.



## T&A terminals

The AC-2010 proximity clocking terminal can be used in a KeyMaster Lite system to control access, verify identity using PINs and display time and date information. Features include an integrated proximity reader, a keypad, LCD screen, digital I/O capability, and support for an external Wiegand card reader.



## Wiegand proximity readers

Controlsoft's AC-1200 Wiegand proximity reader is supported by the AC-310x controller via the AC-3150 remote I/O unit.

This makes it easy to deploy a KeyMaster Lite 3.0 access control system using existing industry-standard Wiegand cards.



## Remote I/O unit

AC-3150 remote input/output units connect to AC-310x controllers on the RS-485 scanner network, enabling digital monitoring and control of devices located far from the controller. Each AC-3150 module provides two outputs and two inputs, as well as a standard Wiegand card reader interface.



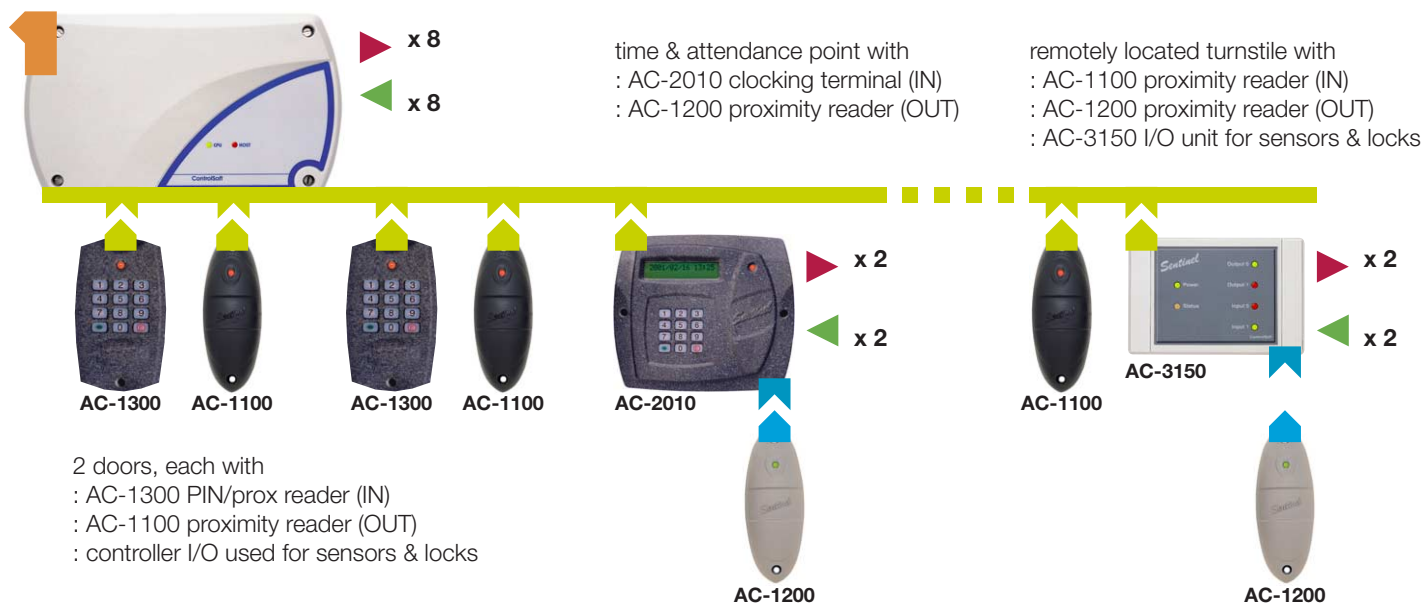
## Remote LCD screens

The AC-2101 display unit provides an LCD screen with four lines of 21 characters each. It is connected on the RS-485 bus in the same way as a proximity scanner.



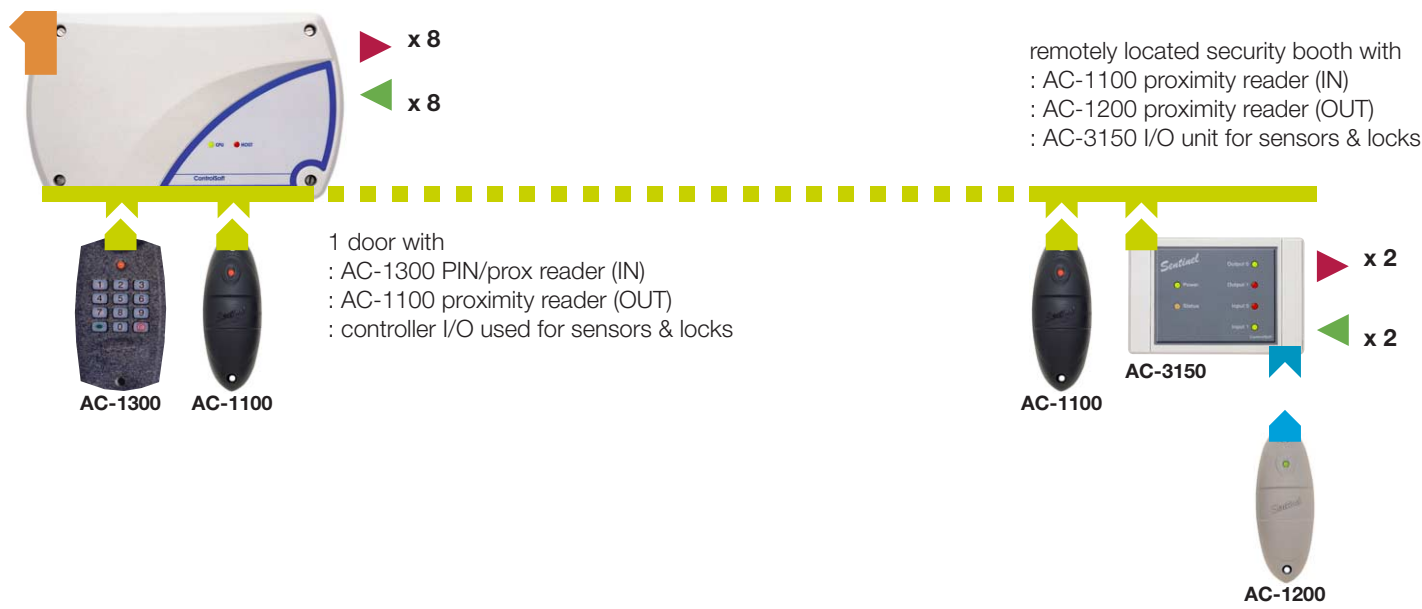
## AC-3104 SAMPLE CONFIGURATION

## 4 doors with full anti-passback



## AC-3102 SAMPLE CONFIGURATION

## 2 doors with full anti-passback



RS-232



RS-485



Wiegand



digital  
input



digital  
output

# Features Summary

## Windows graphical interface

- Multilingual support and free software localisation tools
- Drag-and-drop interface with dockable, user-defined toolbars
- Interface customisation per user, permissions control per group
- Users or groups can be temporarily suspended from system

## Cardholder management

- Streamlined data entry, card assignment and permission control
- Organise cardholders into companies and departments
- Restrict operator control to specific groups, companies
- Employees can be temporarily suspended from system.

## Access control

- Zone and reader based access control
- Full anti-passback functionality with override facility
- Unlimited access control groups and unlimited cardholders per group
- User-definable default access control settings
- Group access permission can be suspended temporarily

## Hardware support

- Support for doors, booths, turnstiles, booms
- Controllers can store up to 2700 cards and 1700 transactions
- Controller connectivity via serial port, modem
- TCP/IP connectivity via additional hardware
- Password protection of controllers
- Easy linking of inputs and outputs
- Selective logging of controller events

## Scheduling

- Up to 16 time schedules per controller
- 3 time periods per schedule
- Schedules can be used to automate log uploads and configuration downloads

## Time and attendance

- Support for new proximity clocking terminals
- Any reader can be defined as a T&A point
- Powerful exporting of T&A data

## Reporting functions

- Sorting of reports by any database field
- Filtering by user-defined parameters
- Support for OLE DB and ADO database technologies

### SYSTEM REQUIREMENTS

200 MHz Pentium  
64 MB RAM  
500 MB free hard disk space  
One free serial port  
Windows versions:  
95 / 98 / NT 4.0 (SP5+) / 2000 / ME  
Internet Explorer V4.01 or higher  
(for on-line help)

#### OPTIONAL:

Additional free serial port for connection of a local take-on reader.

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