

# Access Control Solutions sensoraccess.co.uk

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#### **Approved Partner Program**

Our security integrator partners are the face of Sensor Access and are relied upon in over 30 countries to provide professional, responsive and superior skills in the consultation, design, sale, installation and maintenance of our diverse product portfolio.

Sensor Access select only the most proficient, qualified and enthusiastic security integrators to partner with. We believe that the users of our systems deserve the best possible experience and service from their integrators and we provide the tools, education and support to ensure these standards are maintained.

To become an approved partner we require that training in both technical and commercial areas are completed and an agreement established for future partnership.

# Introduction

Sensor Access was established in 1999 and has experienced dramatic growth over the last decade. Our head office is based in the United Kingdom however we are globally minded and aim to provide value, performance and excellent customer service worldwide. As an independent company we are able to offer excellent pre-sales and after-sales service and have a wealth of experience within the industry.

We manufacture a wide range of products which are currently being used in the UK, Middle East, Europe and Asia. We have teamed up with market leading technology providers to offer a complete access control solution using our flagship software GuardPoint Pro.

"Sensor Access Technology was born from my vision of a professional, friendly and knowledgeable organisation that has all the expertise in providing the best solutions in the world of access control.

Strong business ethics, loyalty, long term partnerships are some of the key elements of how we make a difference in the market.

We are continuously investing in future technologies to ensure that we offer smart solutions in access control and beyond."





## Software Overview

GuardPoint Pro is Sensor Access's powerful yet user friendly online access control and alarm monitoring software. Packed with sophisticated features it fits perfectly within the strict requirements of high security sites. The GuardPoint Pro Solution is suitable for a variety of different sized installations. The GuardPoint Pro software can accommodate hundreds of thousands of cardholders. For smaller installations GuardPoint Pro Lite is available. This limited version of GuardPoint Pro combines cost effectiveness, ease of use and high performance.



## Key Features

- Large system capabilities
- User friendly software
- Extensive integration gateways
- Multiple workstations
- Extensive reporting
- Badge design and printing
- Parking management
- Guard patrol
- Lift contro
- Multi site
- Multi company
- Microsoft Access or SQL database
- Time and attendance
- Alarm monitoring
- Graphical maps with icons
- Smart CCTV integration

# Software Comparison Table

Features	GuardPoint Light	GuardPoint Pro	Part Numbers
Doors/Readers	16	 Unlimited	GPP/Lite
Workstations	1	 Unlimited	Up to 2,000 users, 8 controllers and 16 readers <b>GPP/16</b>
Alarm Control & Graphics		<b>√</b>	Up to 2,000 users, up to 16 readers
Badge Production			GPP/16/ACM
Parking Control	×		Up to 5,000 users, up to 16 readers. Complete with alarm control and graphics module
Lift Control	×		GPP/64
GuardTour	×		Up to 5,000 users, up to 64 readers
Multi Company	x		GPP/128 Up to 10,000 users, up to 128 readers
			GPP/256
CCTV Integration	×		Up to 40,000 users, up to 256 readers
Video+	×		GPP-BDG
OPC Server Integration	×	<b>√</b>	ID Badge Production Module
SQL Database	×	<b>√</b>	GPP-WS  Additional Workstation Licence
Basic T & A	<b>√</b>		GPP-ACM
T & A +	×		Alarm Control and Graphics Module
Multi Site	×		GPP-PCM Parking Control Module
Graphics+	×		GPP-LCM
Web Interface	X		Lift Control Module
Escorting	x		GPP-GT Guard Tour Module
Scan & Attach Documents			GPP-MC
	X		Multi Company Module
Customise fields	×		GPP-CCTV
Email Alerts	×		CCTV Integration Module for DVR's  GPP-Video+
Biometric Integration	✓	<b>√</b>	Video Management Platform
Live Camera Pop Up	×	<b>√</b>	GPP-OPC
Automatic Back up	×	<b>√</b>	OPC Server Interface
Fire Roll Call	×	<b>√</b>	GPP-SQL  SQL Database for GuardPoint Pro
Integration with Alarm System	×	<b>√</b>	GPP-T-PLUS
Crisis Management	×		Time & Attendance Module
Scheduled Access Group	×		GPP-WEB Web Workstation Module - 3 users
Counter Feature	×		GPP-G-PLUS
Automatic Reporting	X		Graphics Plus Module
Automatic Card Invalidation	X		GPP-MS Multi-Site Module
			04/05

## Alarm Control and Graphics



## Overview

The GuardPoint Pro alarm control and graphics module allows the linking of transaction events to a wide variety of actions within GuardPoint Pro and if required through a graphical interface.

- Customisable alarm acknowledgement instructions and alarm priority levels.
- · Execution of crisis levels allowing the system to perform different type of lock down on alarm activation
- Email alerts upon events
- Live camera and cardholder photo pop up for visual verification.
- · Automatic system back up
- · Automated report generation including fire roll call.
- As well as many more...

## Key Features

- Allows for easy personalisation of the system
- A quick method of setting up cause & effect actions on GuardPoint Pro

For example: A door forced open alarm can lock down other high security doors

## Parking Control Management

## Key Features

- · Allocate parking spaces per group
- · Ideal for multi tenanted buildings
- Management of multiple parking lots

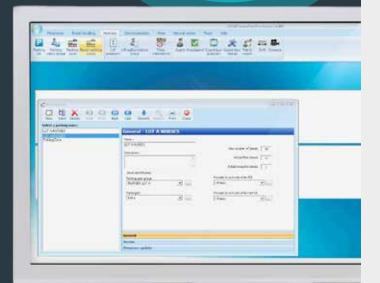
## Overview

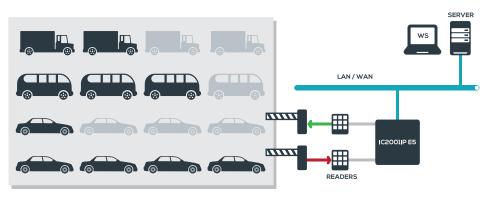
Guardpoint Pro offers a simple yet smart integrated parking control module to allow simple capacity control for multiple parking areas and companies.

This module allows you to set up parking zones of which you can allocate a number of spaces to different cardholder groups. The parking module ensures important members of staff or visitors can always have somewhere to park.

When the car park is full or a group has filled all their designated packing spaces, actions can be performed, for example a message on a display panel or denying access altogether.

The Car parking module is ideal when used with our long range reading solutions that would allow the barrier to open while the car approaches. See page 30 for more information.





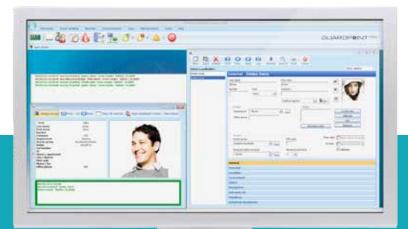
**PARKING LOT A** 

**Part Numbers** 



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## Visitor Management



## Key Features

- Integrated visitor management—no need for a separate system
- Limit users to only seeing and editing just visitors

## Overview

With a unique and simple user friendly separate visitor interface, GuardPoint Pro is perfectly suited to manage your visitors. The operator can be restricted to only manage visitors, this is ideal for your receptionist to log in visitors. The visitor module also means reports can be produced showing who has visited the site, to see whom and for how long

#### It allows the:

- Capture of images
- · Setting of access rights
- Assigning a person to visit
- Attaching ID scans to the visitor record
- Printing of Photo ID Card
   (GPP BDG option required)



### **Part Numbers**

**GuardPoint Pro Visitor Management**As standard in GuardPoint Pro Lite,
GuardPoint Pro 16 (and above)



## Web Interface

# Key Features

This dedicated web interface allows you to connect and control GuardPoint Pro from any machine connected to a computer network via web browser. This is Ideal for a facility manager to make quick and simple operations from anywhere.

The GuardPoint Pro web interface can be easily deployed across different computer platforms. The Web interface is hosted by yourself on your own web host, this gives you complete control of your cardholder data.

**Part Numbers** 

Module for Remote access

GPP-WEB



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## GuardPoint Pro Key Features Overview The Multi Site module is ideal for applications where access The Multi Site module is designed to be used with the at many sites need to be managed centrally. For example Microsoft SQL platform which adds many benefits this module is highly useful for organisations with several to system redundancy. The Different type of system independent branches that wish to let local branches view architecture are as follows. and control only their own sites, while still retaining the ability for overall management to be done from the site Figure 1 (p.10) - Multi Site/Multi polling. This offers the ability headquarters. The Multi Site module allows all the records to split the communication load between servers so that in the database (controllers, readers, cardholders, etc.) To each local site has its own independent server. Both sites be divided into the different sites. Each user of GuardPoint

#### **Part Numbers**

#### **GPP-MS**

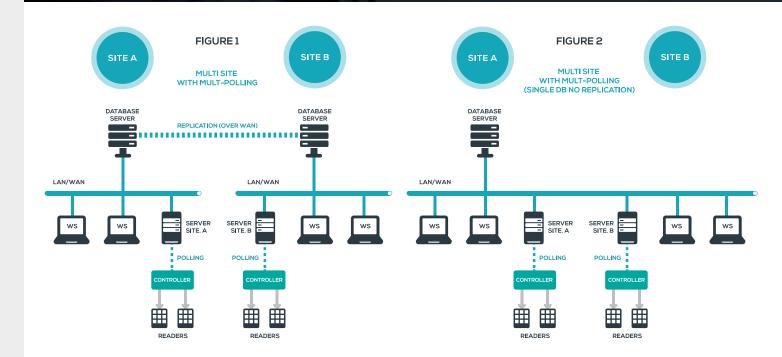
GuardPoint Pro Multi Site Module for sites with multiple locations

Pro can be authorised to view/modify one or more sites.

are fully redundant and can work independently in the even of network failure.

Figure 2 (p.10) - Dependant on the connection to the database each site is independent in the sense that they can function regardless of the other access control server.

Figure 3 (p.11) - The single server option, this relies on a good network infrastructure. The controllers on Site B would need to be connected via a TCP/IP connection.



## Multi Company

## Overview

The Multi Company option is very similar to Multi Site but without the centralised management and SQL data base. Multi Company provides a cost effective multi tenanted system for smaller less complex environments.

In the Multi Company system operators only have access to and can modify data for their own parts of the building. Separate user workstations and reporting facilities for each company can be added.

A single server controls the whole system and reporting can also be produced for the complete system. This software module is ideal for multi tenanted buildings.



#### **Part Numbers**

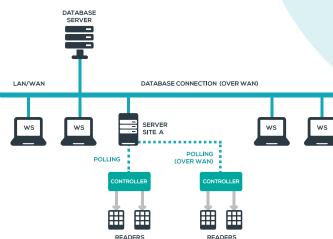
#### GPP-MC

GuardPoint Pro Multi Company Module for Multi tenanted buildings

## Key Features

- Ideal for multi tenanted buildings
- Use of a common system within a facility
- Independent secure management of access control per tenant





10/11

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## Lift Control

## Overview

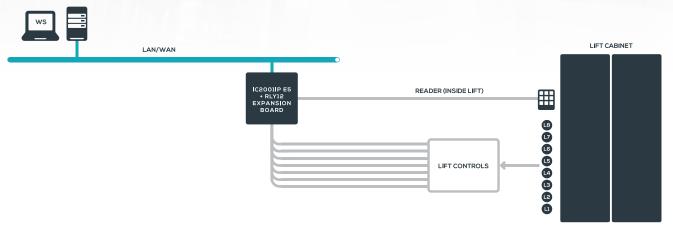
For monitoring employees movements within multi storey buildings. The lift control module allows control of cardholders movements within the lifts. Each floor selection button within the lift is wired to a relay on the controller. When a user presents their card to the reader, the controller will make the decision of which floors they have access to.

With the ability to control up to 64 floors per controller this feature is suitable for the most challenging of



## Key Features

- Limit entrance to only authorised floors
- Control up to 64 floors per controller
- Ideal for multi tenanted buildings





**Part Numbers** 

GPP-LCM

GuardPoint Lift Control Module for control of lift cabs



## Graphics +

## Overview

The graphics+ module allows graphical representation of doors, alarm inputs, relay outputs and on site maps, This can be a single map representing the whole site or a different map for each floor. It is also possible to assign these maps to an unlimited number of user defined actions/processes, cameras and even symbols representing other maps (used as short-cuts between one map and another). Basic libraries of graphical symbols are provided with the module but other symbols may be created or imported by the user.

- The doors are represented in a dynamic way by a different symbol following the door status (open, closed, door forced, door remained open too long).
- · The alarms are updated with the corresponding symbol (new alarm, acknowledged).
- Users may select what should happen upon double-clicking each symbol: Either triggering one of the predefined actions/processes, or viewing a live video stream from a specific camera, or switching to another map.
- · Zoom in / zoom out.
- · Skipping between the maps by simply clicking the next map icon within the current map.
- Alarm symbols are animated according to their alarm status.
- · Simple user interface with icons.







**Part Numbers** 

**GPP-G-PLUS** 

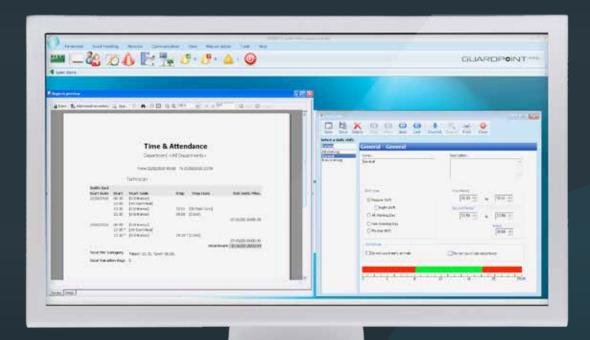
GuardPoint Pro Graphics Plus Module for advance graphical interface

## Time and Attendance +

## Overview

The Time & Attendance Plus module offers a simple yet feature rich, cost effective time and attendance option.

- · Calculate total hours worked according to readers selected.
- · Definition of personal contracts, i.e. shift patterns, overtime and short time.
- · Fixed or flexible working hours.
- · Calculate time accumulated on a specific job (i.e. training, project-related) or location (meeting room or library).
- Export the report as an external file in different formats.
- Ideal for companies that require some Time and Attendance information without the cost of a dedicated T & A system.





**Part Numbers** 

**GPP-T-PLUS** 

GuardPoint Pro Time and Attendance Plus Module

# GuardPoint Pro Integration

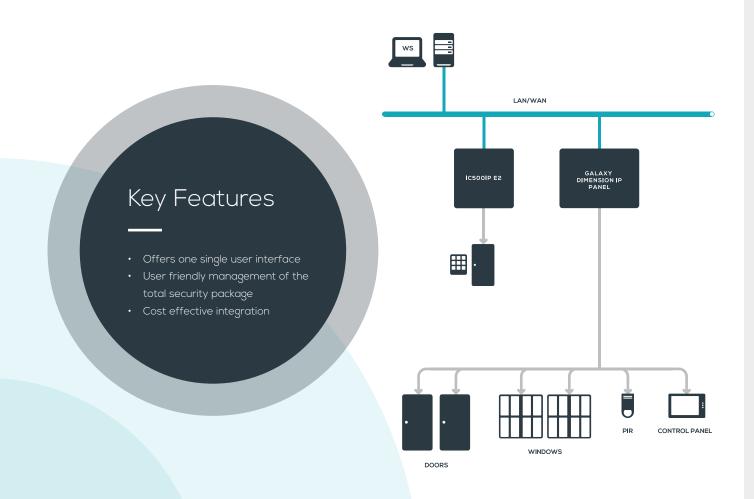
## Galaxy Alarm IP Panel

## Overview

Within GuardPoint Pro using the Galaxy module allows one simple user friendly interface for controlling both access control and intruder alarm. This allows you to receive all alarm events from the Galaxy panel into GuardPoint Pro and link alarm events to other actions e.g. set a camera to pop up upon alarm.

The Galaxy alarm inputs can also be represented on the GuardPoint Pro graphical maps which gives a visual map of where the inputs are. It also allows you to see what alarms have been triggered within the map for a simple user friendly software interface.

For this integration to work your Galaxy Dimension panel needs to be IP enabled so it can be configured by GuardPoint Pro.



## GUARDPOINT PRO



**Part Numbers** 

GPP-GAL

GuardPoint Pro Galaxy intruder Alarm Integration Module

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# GuardPoint Pro Integration



## Overview

GuardPoint Pro offers integration with several leading CCTV brands. The integration offers a simple front end for both systems which allows the following actions to be controlled within GuardPoint Pro:

#### Live view of the camera

- Select presets
- Zoom in / out
- Focus near / far
- PTZ (pan, tilt, zoom)

#### Playback camera mode

- Allow fast forward / rewind of a video sequence
- Pause and play
- Jump to a certain time / date
- Change playback speed

The simple integration offers event driven live pop up and access control that upon one click will replay the recording.

# Key Features

- Single user interface
- · Ideal for sites where the user wants just one front end
- · Cost effective security management
- · Simple for operation of site security
- Quick identification of threats















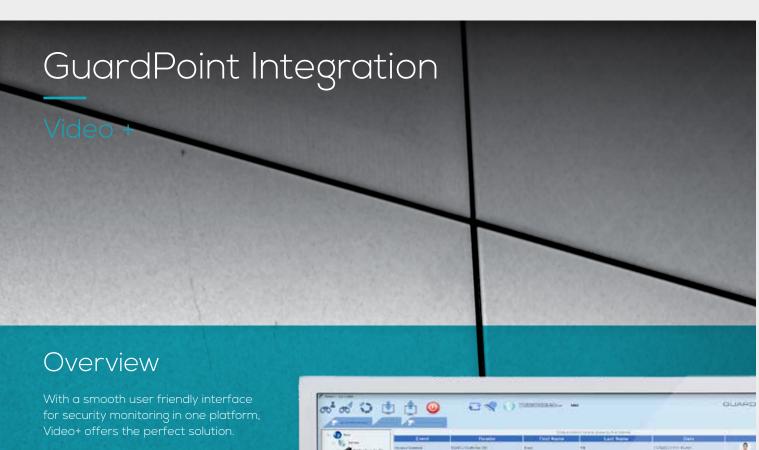


#### **Part Numbers**

**GPP-CCTV** 

GuardPoint Pro CCTV Integration Module for **DVR** Integration





The Video+ module runs on a separate screen to GuardPoint Pro, making this module ideal for security room applications where monitoring is key.

Two views are available with Video+ module, the first is alarm events and the second access events. Both of these link to the live and recorded footage of IP cameras on site.

- Full PTZ, presets and zoom control
- Retrieve recorded footage
- Link camera footage to an event
- Take snapshots from camera
- Open camera screen from map
- Link alarm events with videos
- Link access events with videos
- Playback of camera footage
- Click and drag events into the CCTV matrix









### **Typical Applications**

- ${\boldsymbol \cdot}$  Simplified monitoring of two separate systems
- More efficient tracking of key events
- Cost saving on streamlining security systems



#### **Part Numbers**

### GPP-V-PLUS

Guardpoint Pro Video Plus Module

16/17

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# GuardPoint Pro Integration

## Biometric Integration

## Overview

Offering a simple integrated solution Sensor's Bio readers benefit from a fully integrated biometric solution. From the GuardPoint Pro users can enrol their fingerprints. All future management of fingerprints are all carried out from GuardPoint Pro rather than a separate application. A simple and user friendly solution utilising an award winning algorithm makes this a perfect solution.



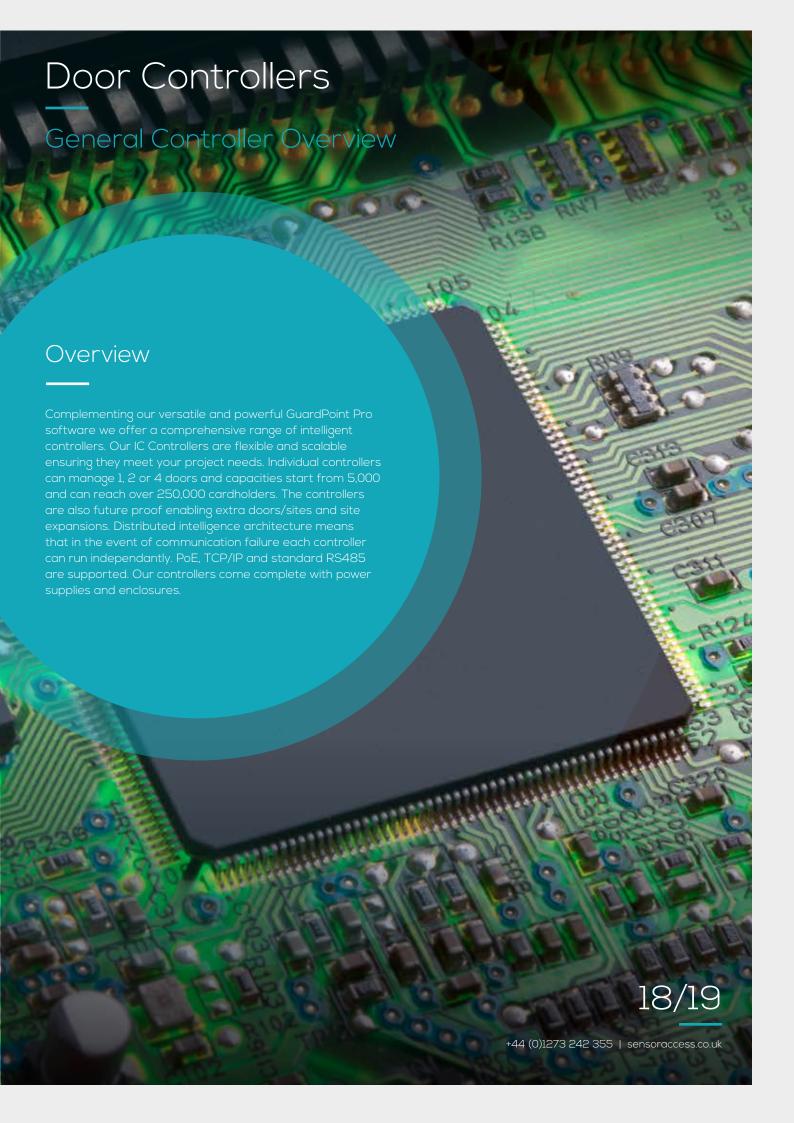


**Part Numbers** 

GuardPoint Pro Biometric Integration

As standard in GuardPoint Pro Lite, GuardPoint Pro 16 (and above)

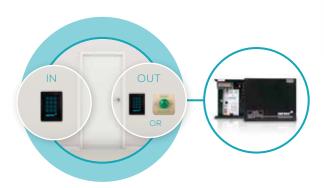




## IC500 / IC1000

## Overview

The IC500 and IC1000 controllers offer entry level access control for small and medium installations. The cost effective security solution for doors benefits from the powerful features of the GuardPoint Pro software.

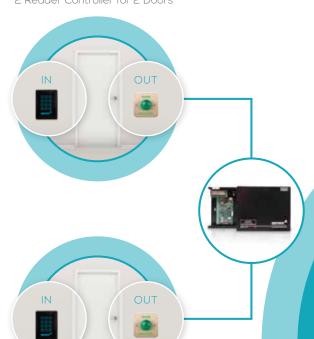


#### IC500 (Above)

2 Reader Controller for 1 Door



2 Reader Controller for 2 Doors







#### **Cardholders**

IC500: Up to 8,700 IC1000: Up to 8,700



#### **Events**

IC500: Up to 8,000\*
IC1000: Up to 8,000\*



#### **Doors**

IC500: 1x Door IC1000: 2x Door



#### Readers

IC500: 2x Readers
IC1000: 2x Readers



#### Inputs

IC500: 4x Inputs IC1000: 4x Inputs



#### On Board TCP IP

IC500: Optional IC1000: Optional



#### **Outputs**

IC500: 3x Outputs IC1000: 3x Outputs



#### Comms Bus

IC500: 1

## Key Features

- 1 door 2 reader / 2 door 2 reader networkable controller
- 5,000 cardholders standard-upgradable to 8,700
- Optional built in TCP/IP interface
- Compatible with all IC controllers
- 4 inputs, 3 outputs on board
- Compatible with Sensor SF or 3rd party readers
- FLASH upgradable memory
- LED diagnostics

<sup>\*</sup> Expandable dependant on cardholders

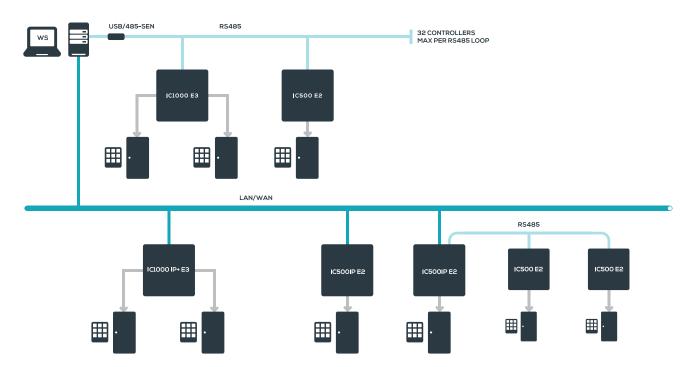
## IC500 / IC1000

## Product Highlights

Elaborate capabilities including daily and weekly programs, holidays, security levels, escorting and anti-passback. Alarm management functions allow supervision of local and global reflexes, unsuccessful read attempts, door alarm and duress alarm.

Simple installation means the system can be installed in a matter of minutes. With full wiring diagrams supplied on the board programming is simple. Flash memory allows easy firmware upgrades. The use of removable connectors will greatly ease system installation along with diagnostic LED's. With independent decision making at the local level without any computer intervention, even if communication is lost the controller will still function.

Communication is ensured and simple via the RS485 communication bus or via the built in TCP/IP interface (IC500IP and IC1000IP only)





#### **Typical Applications**

- Small to Medium Access Control Solutions
- Education Facilities
- · Commercial Solutions



#### **Part Numbers**

#### IC500 E2

2 Reader Controller for 1 door inc 2 Amp PSU

#### IC500 IP E2

2 Reader Controller for 1 door with IP inc 2 Amp PSU

#### IC1000 E3

2 Reader Controller for 2 doors inc 3 Amp PSU

#### IC1000 IP E3

2 Reader Controller for 2 doors with IP inc 3 Amp PSU



## IC2001 / IC4001

## Overview

The IC2001 and IC4001 controllers suit all medium to high security environments. They offer integrated on-line access control and alarm monitoring. The controllers are scalable from simple single site application right through to complex multi-site installations.



## Key Features

- 2 door 4 reader / 4 door 4 reader networkable controller
- 20,000 cardholders standard (upgradable to 110k)
- Optional built in TCP/IP
- Redundant communication bus (optional)
- Plug in expansions available for Inputs and outputs
- Compatible with Sensor SF or 3rd Party readers
- 8 inputs, 4 relay outputs—All supervised
- FLASH upgradable memory
- Full LED diagnostics



#### **Cardholders**

IC2001: Up to 110,000 IC4001: Up to 110,000



#### **Events**

**IC2001:** Up to 53,000\*\*\* **IC4001:** Up to 53,000\*\*\*



#### **Doors**

IC2001: 2x Door IC40001: 4x Door



#### **Readers**

IC2001: 2x Readers
IC4001: 4x Readers



#### Inputs

IC2001: 8x Inputs\*
IC4001: 8x Inputs\*



#### On Board TCP IP

IC2001: Option IC4001: Option



#### **Outputs**

IC2001: 4x Outputs\*\*
IC4001: 4x Outputs\*\*



#### **Comms Bus**

IC2001: 2

- \* Expandable to 16
- \*\* Expandable to 64
- \*\*\* Expandable dependant on cardholders

#### IC2001

4 Reader Controller for 2 Doors



#### IC400

4 Reader Controller for 4 Doors



## IC2001 / IC4001

## Product Highlights

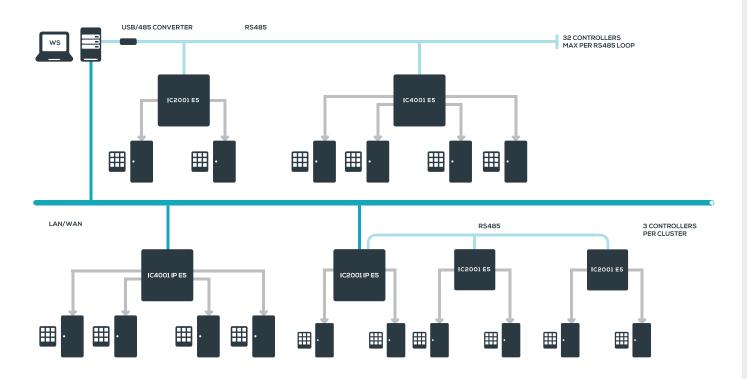
**High capacities** are reached via the high speed on board RAM which allows maximum capacities of 110,000 cardholders and 53,000 events in memory.

**Simple installation** is achieved with PCB's supplied in specially designed boxes with industry specific power supplies and wiring diagrams.

**High Security** applications are covered on both the IC2001 and IC4001 with an optional secondary communication bus. A second bus provides maximum protection against communication loss for sites that require high level security and the knowledge that communication is always backed up. (See p.26)

**Expandable Inputs and Outputs** means the controller can be flexible to meet a variety of applications to include lift control with up to 64 outputs and 16 inputs (See p.24 for extension boards).

Simple communication via either on board RS-485 or built in TCP/IP interface.





#### **Part Numbers**

#### IC2001E5

4 Reader Controller for 2 doors inc 5 Amp PSU

#### IC2001 IP E5

4 Reader Controller for 2 door with IP inc 5 Amp PSU  $\bf IC4001~E5$ 

4 Reader Controller for 4 doors inc 5 Amp PSU

#### IC4001 IP E5

4 Reader Controller for 4 doors with IP inc 5 Amp PSU



#### **Typical Applications**

- Education facilities
- Health Care and hospital applications
- Commercial and blue chip sites



## Extension Boards

## Overview

Cost effective solution for expanding inputs and outputs or TCP/IP on IC2001, IC4001, ICPRO and IC1604 Controllers

## Key Features

- Versatile expanding options for lift control, locker applications and CCTV matrix etc.
- Plugs straight onto the controller no wiring required
- Extension boards all have status LED's on board
- Cost effective option for adding inputs and outputs without adding additional controllers
- Convert controllers to TCP/IP easily and quickly
- 2 amp rating on all relay outputs
- Full 4 state input monitoring

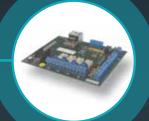
#### EXT-TCP/IP

Plug in extension board offering TCP/IP interface and RS485 bus to other IC Controllers.



#### EXT-TCP/IP-IR

Plug in extension board offering TCP/IP interface, RS485 bus, 8 supervised inputs, 4 relays and 4 LED controls for card readers.



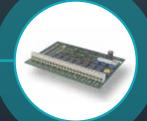
#### **FXT-IRI F**

Plug in extension board with 8 supervised inputs, 4 relays and 4 LED controls for card readers.



#### RELAY-12

12 relay plug in extension board.



#### SAL 16

Satellite relay module with 16 additional relays, 2nd bus required.



# ů

#### **Part Numbers**

EXT-TCP/IP

Plug in TCP/IP board

EXT-TCP/IP-IR

Plug in TCP/IP board with additional I/O

EXT-IRLED

Plug in additional I/O board

RELAY-12

12 relay extension board

SAT-16

Relay board for additional relays



### **Typical Applications**

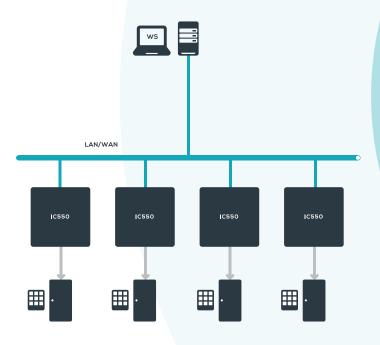
- Converting controller to TCP/IP
- Lift Controller applications (Up to 64 floors per controller)
- Additional monitoring of doors and perimeter systems

## IC550 PoE

## Overview

The IC550PoE controller is the first of its kind taking its required power directly from the TCP/IP cable with its embedded 12V PoE power supply.

This 1 door controller is designed to meet a range of applications from simple solutions right through to a high security complex multi site application.





## Key Features

- 1 door 2 reader networkable controller
- PoE
- 44,000 cardholders standard—upgradable to 160,000
- Store up to 18,000 events-expandable to 24,000
- Compatible with all IC controllers
- 4 inputs, 2 outputs on board
- Compatible with Sensor Prox SF or 3rd Party readers
- FLASH upgradable memory
- Supply 700mA at 12volts (2x readers and 1 lock)



#### **Technical Tips**

Consider our range of low voltage locking High speed 32 bit micro processor (option)



#### **Typical Applications**

- Applications where PoE is favoured
- Buildings where a TCP/IP network is already in place



#### **Part Numbers**

### IC550 PoE

2 Reader Controller for 1 door in metal enclosure

24/25

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## IC PRO / IC 1604

## Key Features

- Up to 266,000 Cardholders and 53,000 events
- Optional secondary communication bus and third available for specific applications such as serial card reade
- Built in TCP/IP Interface



Designed to excel in extremely demanding security installations requiring very large databases. With superior processing power and speed the controller is designed to meet applications where hundreds of thousands of cardholders and events in memory are required.

## Key Features

- Cost effective option for alarm monitoring where there is no doors to control
- Fully intelligent with on board memory
- Second communication bus option
- Up to 24 inputs can be monitered per controller



The IC1604 offers an optimal solution for real time monitoring of alarm points (PIR's, Gas Detectors, Fire Doors etc) and provides additional outputs for triggering other devices such as lighting, sounders, etc



#### **Part Numbers**

#### ICPRO 2 E5

High capacity 4 reader 2 door controller inc 5 Amp PSU

#### ICPRO 2 IP ES

High capacity 4 reader 2 door controller with IP inc 5 Amp PSU

#### ICPRO 4 E5

 $\hbox{High capacity 4 reader 4 door controller inc 5 Amp PSU}\\$ 

#### ICPRO 4 IP E5

High capacity 4 reader 4 door controller with IP inc 5 Amp PSU IC1604  $\rm E1$ 

Input and output controller inc 1 Amp PSU



#### **Typical Applications**

- Government
- Defence Applications
- Commercial and Blue Chip

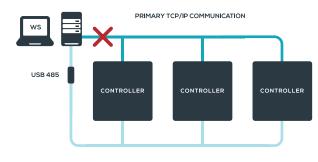
## Advanced Controller Features

## Overview

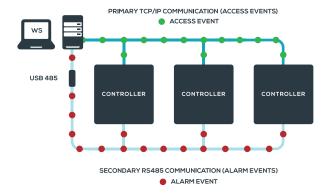
Redundant communication bus is a unique advanced feature which can be utilised in different ways to maximise the security on your system. It can be utilised in different ways as follows:

## Redundant Secondary Communication Bus

Sensor's intelligent controllers offer a great solution for communication redundancy where failure in the primary bus would cause the system to automatically switch to the secondary bus. This would ensure continuous flow of events being reported to GuardPoint Pro Server to give the operator the full status of the site at all times; hence providing a more secure solution. Primary and secondary buses can be in any combinations of RS-485 or TCP/IP as required.



SECONDARY RS485 COMMUNICATION

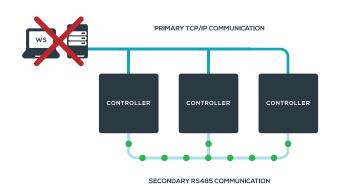


## Alarm Priority Communication Bus

Another advanced feature of our controller is alarm priority where events are split. Normal events are sent using the primary bus and important alarm events are sent using the secondary bus. This would ensure fast real time reporting of alarm events regardless of the number of normal transactions taking place in the primary bus. This solution ensures that the system is not compromised by delay reporting of alarm events.

# Global Anti-Pass back and network reflexes without Server

High Security functions such as global anti pass back and relay triggers can still be performed via the secondary bus. If the GuardPoint Pro server is disabled or disconnected the system will still be fully operational offering maximum security and functionality at all times.



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# IC Controller Comparison Table

	IC500	IC550PoE	IC1000	IC2001	IC4001	ICPRO2	ICPRO4	IC1604
User Capacity Standard	5,000	44,000	5,000	20,000	20,000	65,000	65,000	N/A
User Capacity Maximum	8,700	160,000	8,700	32,110	32,110	266,000	266,000	N/A
Event Buffering	8,000	24,000	8,000	53,000	53,000	308,000	308,000	4,500
Maximum Doors	1	1	2	2	4	2	4	0
Maximum Readers	2	2	2	4	4	4	4	0
PSU Current Rating (Amps)	2	N/A	3	5	5	5	5	1
Monitoring of Low Battery	X	X	×	<b>√</b>	<b>√</b>	X	X	×
Monitoring of Tamper	×	X	X	<b>√</b>	<b>V</b>	<b>√</b>	J	×
PSU Failed Monitoring	X	×	X	<b>√</b>	<b>/</b>	<b>√</b>	J	×
Inputs	4	4 4	4	8	8	8	8	16
Outputs	3	2	3	4	4	4	4	4
RS-232 / RS-485 Connectivity	<b>√</b>	<b>√</b>	J	<b>√</b>	<b>/</b>	<b>✓</b>	<b>V</b>	<b>√</b>
TCP/IP Connectivity (Option)	1	<b>√</b>	J	<b>√</b>	<b>/</b>	<b>√</b>	<b>√</b>	<b>S</b>
Secondary Coms Bus (Option)	X	X	X	<b>√</b>	<b>√</b>	<b>√</b>	<b>√</b>	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
Third Com Bus	X	X	X	X	X	<b>√</b>	<b>I</b>	×
Diagnostic LED's (Outputs)	<b>√</b>	<b>√</b>	<b>√</b>	<b>√</b>	<b>√</b>	<b>√</b>	<b>√</b>	<b>/</b>
Diagnostic LED's (Inputs)	X	Partial	X	<b>/</b>	<b>/</b>	<b>✓</b>	<b>√</b>	<b>√</b>
Supported Technologies	** Supp	orted on all co	ontrollers:	Biometric, S	mart Card,	Proximity, Bo	ar Code, Mag	Stripe **
Removable Terminals	J	<b>√</b>	<b>√</b>	J	<b>√</b>	<b>√</b>	<b>√</b>	J
Flash Firmware	<b>√</b>	<b>✓</b>	<b>√</b>	<b>√</b>	J	<b>/</b>	<b>√</b>	<b>√</b>

# Reading Technologies

## SF Smart Card Readers

## Overview

The SensorProx SF range of readers are stylish yet practical and easy to install. All readers are epoxy filled and weather proof and therefore suitable for internal or external applications. The SF format is based on smart read/write technology with sector encryption to offer the user a flexible, secure solution that can be used for multiple applications such as; cashless vending, biometrics, pc log-on etc. With the various options in formats and designs it makes the SensorProx SF range the preferred choice for many users. Sensor Access offers the customers fast delivery for the SF format cards and tags with a guarantee for no duplication.



#### SE-MINI

Mini smart card reader



#### SF-SG

Single gang smart



#### SF-KPV

Keypad and smart card reader



#### SE-DSK RD

Desktop enrolment reader

## Key Features

- Secure encrypted format cards and readers
- Mifare compatible—making cards suitable for other applications
- Metal back plate for easy installation
- Non drop bottom screw
- Backlit reader and keypad
- Touch sensitive keypad with LED feedback
- Fully potted IP65 rated suitable for internal and external applications
- Red, green and blue LED feedback



#### **Technical Tips**

The SF readers have a configurable output allowing them to read the Full CSN of Mifare Classic, Mifare Plus and Desfire cards.

These readers can also be purchased to read the SensorProx and HID prox format cards.



#### **Part Numbers**

#### SF-MIN

SensorProx SF mini smart card reader

SF-SG

SensorProx SF single gang smart card reader

SF-KPV

SensorProx SF single gang prox and pin reader

SF-DSK-RD

SensorProx SF format desktop reader



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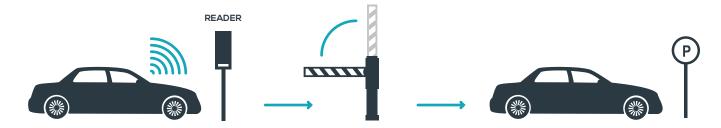
# Reading Technologies

## Long Range Reading Options

## Overview

With a selection of long range reading solutions Sensor Access has a reading option to meet your requirements.

- 2m hands-free entry solution—ideal for applications where disabled access is required or for parts of a building where staff may be carrying items making it difficult to present a card
- 4m with up to 10m with an active tag-ideal for car parking applications
- · Up to 30m using a radio receiver—ideal where hands free long range is cost prohibitive
- · UHF technology using passive tags with up to 4m read range





#### **Typical Applications**

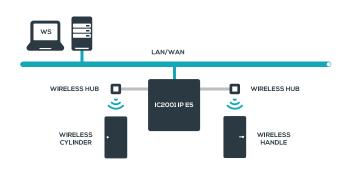
- Car Parking
- Handsfree Solutions
- \* Please contact our sales team for full information

## Wireless Readers

## Overview

An innovative new option that offers great flexibility using wireless technology. It is no longer necessary to physically wire the locking mechanism, reader, exit buttons and break glass units to the access control panel. The whole solution can be achieved with the installation of a wireless cylinder replacing the standard Euro cylinder.

The access token would be read by the cylinder reader which in turn would release the lock and send the data wirelessly back to a controller via a hub.



# Key Features - Simple, easy, clean installation - Ideal for retrofit situations - Wireless handle also available

# Reading Technologies

# SensorBio Fingerprint Readers

## Overview

The SensorBio range are IP based fingerprint access control readers. The units are is integrated with both fingerprint and one of two types of internal proximity card reader. (Mifare / SensorProx type) With an integrated enrollment process from within Guardpoint Pro, the SensorBio range offers the ultimate user friendly interface for end users and installers. The S-BIO-MF-W is vandal resistant and IP65 Rated. Our weatherproof option is ideal for external applications offering exceptional durability in harsh environments.





- Award winning fingerprint algorithm
- IP65 Weather proof and IK08
   Vandal Pesistant option
- 1:2000 identification in 1 second
- Up to 5,000 Users
- Ethernet interface for TCP/IP communication
- Built in RF reader
- Slim design for installation on to a door frame
- Multi-colour LED and interface tone buzzer
- Resistant to static damage

## Part Numbers

#### S-BIO-SP

Finger print reader with internal SensorProx reader

#### S-BIO-MF

Finger print reader with internal SensorProx Mifare reader

#### S-BIO-MF-W

External use finger print reader with internal SensorProx Mifare reader

#### S-BIO-USB

Desktop enrolment fingerprint reader



#### **Technical Tips**

SP Reader is formatted to work with SP Range of Sensor readers MF Reader is formatted to work with SF Range of Sensor readers S-BIO-USB is designed for easy enrolment and practicality on site 30/31

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## Gwent Hospital - UK

After a vigorous selection process a GuardPoint Pro system was installed over 5 sites of the Gwent Healthcare trust. With many integrations including CCTV, fire, intrusion and live linking with the existing HR database.

Smart cards have been issued on the site and are being utilised for not only the access control but also cashless vending, PC-log on as well as storing biometric data.

Using IC2000 & IC4000 Controllers the final switch over phase from the old system saw over 400 readers go live. The system offers a future proof solution for the trust. This site is still expanding by adding new locations and continues to grow successfully.



## Royal BAM Group HQ - Netherlands

Ranking amongst Europe's largest group, BAM is a company that operates in construction, mechanical, electrical, civil engineering, property and public private partnerships.

GuardPoint Pro was the platform selected to manage BAM's head office and its remote offices throughout the Netherlands. Scalability and flexibility were important factors in BAM's choice of access control solution. IC1000, IC2000 and IC4000 controllers were installed communicating via TCP/IP across the entire BAM network. BAM uses GuardPoint Pro software to manage 25,000 employees, 7 workstations, multiple sites, badge printing, alarm control and graphics. Desfire smartcard technology is used offering BAM a high security solution.



## Circle Health - UK

Circle is co-founded, co-run and co-owned by clinicians. Because the consultants and healthcare professionals who work for Circle own the facilities they work in, they are empowered to put patients first in everything that they do. The main 40 doors of the system are controlled by a GuardPoint Pro system and intelligent door controllers ensuring patient and staff safety.

For the internal doors 27 wireless cylinder locks were installed. These are all managed from GuardPoint Pro and offer the client a more cost efficient option where lower security functions were required.

## St Mary Magdalene Academy - UK

When the school gained academy status a new building was constructed in 2007 and upgrading the security system to meet the demands of a modern school became part of this project. A 60 door GuardPoint Pro system was installed with a range of Sensor Access's intelligent IC controllers including biometric and mifare proximity readers. With over 1200 pupils, biometric readers are used to tackle the problem of pupils forgetting their cards.

GuardPoint Pro is running with 2 additional workstations with future plans to link with the schools database



## Barnsley College - UK

Barnsley College campus is a leading educational establishment in South Yorkshire. In order to safeguard the contents of the building and increase security Barnsley College decided to implement an access control solution.

A GuardPoint Pro System was installed using IC2000 & IC4000 controllers as well as Sensor Access's Mifare readers. Barnsley College now have a system that automatically populates the student data from a central system into GuardPoint Pro software saving time and money.



## Oxford School - UK

A Guardpoint Pro system was specifically designed to meet the complex requirements of this large school. The school campus includes Oxford School International, Oxford Preparatory School, Oxford Pre-Prep School and Oxford Nursery. With over 350 readers and 40 biometric Finger Print Readers on site, the system has expanded as requirements have grown. Oxford school now operates a fully integrated security system offering peace of mind to parents and students. The system has proved future proof to date and will continue to grow and meet their expectations.



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## Sports Hub - Singapore

A new prestigious 55 000 capacity national stadium with a retractable roof and comfort cooling for spectators will be the largest free spanning structure in the world. As such an important site, security was at the forefront of requirements from a panel of consultants. With a tough specification Sensor Access were able to comply with a system made up of over 400 IC500IP controllers running on PoE, Biometric readers, 400 Sensor format prox and pin readers.

GuardPoint Pro runs full redundancy with web interface, SQL database, OPC server, GuardTour, CCTV integration, badge production, multiple workstations and over 20 alarm controller boards monitoring additional doors and points within the building.



## HHNK Water Authority HQ- Netherlands

Regional water board (Hoogheemraadschap Hollands Noorderkwartier-HHNK) is responsible for water management , water control, ensuring good water quality and managing roads.

A flexible and simple access control system was required by HHNK to manage its headquarters where over 600 employees work. ICl000, IC2001 & IC4001 controllers were installed with communication via TCP/IP. Their GuardPoint Pro system was integrated with a 3rd party security management platform using OPC and SQL. HHNK's system manages over 60 doors with great potential to expand as HHNK requirements changes for this site and its remote sites.



## National Theatre - Bahrain

The national theatre of Bahrain includes a main 750 seat auditorium designed for; drama, small symphony's, conferences and Jazz.

With such an iconic national building it was important to ensure that security was covered. A GuardPoint Pro system securing the main doors within the building was installed. Using the alarm control package has allowed for full visual control and monitoring of the system, which has worked great for this busy and dynamic site.

## Prime Towers Dubai - UAE

This project is located in a prime location at the heart of business bay, Dubai. A prestigious project utilising many integrations within GuardPoint Pro including CCTV Integration and OPC server interface for automatic database population from existing HR Database.

This site is also using badge production and the alarm control module to provide a simple and user friendly powerful front end in one software.

Sensor Access secured S-Class smart readers are used throughout the building and long range version for the car park providing a complete future proof solution.



## Sovereign House - UK

This system was installed over the clients existing TCP-IP network which minimised installation costs. This also meant minimal decorative disruption for the building. A 50 door GuardPoint Pro system was installed on site using the stylish SF range pin & prox readers as well as long range reader for the carpark. The carpark is also being managed by GuardPoint Pro parking module which allows for counting in and out and limiting entrants to the number of spaces available. Sovereign House utilises the visitor module and badge production within GPP, as well as the lift control module for controlling the lifts in the building. The site uses many actions and processes within GuardPoint Pro which automates many functions including automatically printing a roll call report.



## NATPET - Saudi Arabia

Established in 1990, NATPET is one of Saudi Arabia's leading petrochemical manufacturers producing over 800,000 tons of Propylene and Polypropylene per year. A widespread and exposed site with over 4km of perimeter to protect. The security risks to this site are very high and a combination of technologies were required to secure it. Utilising Sensor's IC1604 input/output boards a system was developed to monitor alarm inputs. The GPP was used as an integration platform with the Pelco CCTV system. Commands were sent from GuardPoint Pro to either trigger a live camera or take a dome to a preset. By deploying a 2nd communication bus on all controllers this provided a communication redundancy option ensuring the highest level of security.



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## Software



GPP-LITE GuardPoint Pro Lite access control software. Real time reporting for systems up to 2,000 users, 8 controllers and 16 readers. Features Alarm Graphics, Badge Printing and simple reporting

GPP/16 GuardPoint Pro access control software for up to 16 readers and 2,000 users

**GPP/16-ACM** GuardPoint Pro access control software 16 readers and 5,000 users.

Complete with Alarm control and Graphics module included (ACM-GPP)

GPP/64 GuardPoint Pro access control software for up to 64 readers and 5,000 users.

GPP/128 GuardPoint Pro access control software for up to 128 readers and 10,000 users.

**GPP/256** GuardPoint Pro access control software for up to 256 readers and 40,000 users

GPP/512 GuardPoint Pro access control software for up to 512 readers and 65,000 users.

#### For software requirements beyond 40,000 cardholders and/or 512 readers, please contact Sensor Access

GPP-BDG ID card design and production - Produce and print ID cards from within GuardPoint Pro

GPP-WS Additional Workstation Licence - Manage GuardPoint Pro from multiple PC's.

GPP-ACM Alarm Control and Graphics - Import graphical maps and manage interactive

system alarms,

GPP-PCM Parking Control - Manage car park spaces according to user and company privilege.

GPP-LCM Lift Control - Manage access to floors within the building

**GPP-GT** Guard Tour - Monitors security guard patrol activity.

**GPP-MC**Multi Company Database - Use one GuardPoint Pro software for each company to manage their

own system. Single database

**GPP-CCTV** CCTV integration module for DVRs - contact Sensor for product compatibility

GPP-VIDEO+ Advanced video Integration Module - Compatible with Milestone, Works with SQL

**GPP-OPC** OPC Server Interface

**GPP-SQL** SQL Database for GuardPoint Pro

**GPP-T+** Time & Attendance module

**GPP-MS** Multi-Site Module - Enable independent administration of multiple sites

**GPP-G+** Enhanced graphical module - Create layered mapping for single screen

administration

**GPP-GXY** Galaxy Intruder Alarm Panel Integration Module

GPP-WEB Web Workstation Module, 3 Users



# Controllers



IC500 E2

 $1\,\mathsf{Door}\,/\,2\,\mathsf{Reader}\,\mathsf{Controller},\,4\,\mathsf{inputs},\,3\,\mathsf{outputs},\,5,\!000\,\mathsf{cardholders}\,\,(\mathsf{expandable}\,\,\mathsf{to}\,\,8,\!700)\,\mathsf{Housed}$ within a metal cabinet with 2 Amp 12VDC Power Supply



IC500 IP E2

As Above with embedded IP

IC1000 E3

2 Door / 2 Reader Controller, 4 inputs, 3 outputs, 5,000 cardholders expandable to 8,700) Housed within a metal cabinet with 3 Amp 12VDC Power Supply



As Above with embedded IP



IC2001E5

2 Door / 4 Reader Controller, 8 inputs (expandable to 16) 4 relay outputs (expandable to 64) 20,000 cardholders (expandable to 32,000) Housed within a 5 Amp 12VDC Power Supply

IC2001 IP E5

As above with embedded IP

IC4001E5

4 Door / 4 Reader Controller, 8 inputs (expandable to 16) 4 relay outputs (expandable to 64) 20,000 cardholders (expandable to 32,000) Housed within a 5 Amp 12VDC Power Supply

IC4001 IP E5

As above with embedded IP



ICPRO 2 E5

2 Door / 4 Reader Controller, 32 Bit CPU, 4MB RAM, 10 inputs (expandable to 18) 4 relay outputs (expandable to 64) 64,000 cardholders (expandable to 256,000) Housed within a 5 Amp 12VDC Power Supply

ICPRO 2 IP E5

As above with embedded IP

ICPRO 4 E5

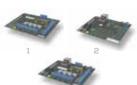
4 Door / 4 Reader Controller, 32 Bit CPU, 4MB RAM, 10 inputs (expandable to 18) 4 relay outputs (expandable to 64) 64,000 cardholders as (expandable to 256,000) Housed within a 5 Amp 12VDC Power Supply

ICPRO 4 IP E5

As above with embedded IP



Alarm Controller with processor flash memory, 16 inputs (expandable to 24) 4 relay outputs (expandable to 56) Housed within a metal cabinet with 1 Amp 12VDC Power Supply



1. EXTIRLED

Plug In Extension board with 8 supervised inputs, 4 relays and 4 LED controls for card readers (Compatible with IC2001, IC4001 ICPRO2, ICPRO4 & IC1604)

2. EXT-TCP/IP

Plug In Extension board offering TCP/IP interface and RS485 bus to other IC's (Compatible with IC2001, IC4001 ICPRO2, ICPRO4 & IC1604)



3. EXT-TCP/IP-IR

Extension board offering TCP/IP interface, RS485 bus, 8 supervised inputs, 4 relays and 4 LED controls for card readers (Compatible with IC2001, IC4001 ICPRO2, ICPRO4 & IC1604)



4. RLY-12

12 relay plug in extension board (Compatible with IC2001, IC4001 ICPRO2, ICPRO4 & IC1604)



5. SAT-16

Satellite Relay Module with 16 additional relays. Three can be connected to each IC controller. (Compatible with IC2001, IC4001 ICPRO2, ICPRO4 & IC1604)



1. USB/485-SEN

USB to RS485 communication interface

Communication bus kit for adding a 2nd bus to IC controllers. NOT COMPATIBLE WITH IC1000 RANGE

## Readers & Cards

1. SF-MINI	SensorProx SF Format Mini Smart Card Reader. Tri colour back lit reader.
2. SF-SG	SensorProx SF Format Single Gang Smart Card Reader. Tri colour back lit reader.
1 2 3. SF-KPV	SensorProx SF Format Keypad Smart Card Reader, Tri colour back lit keypad. Touch sensitive.
SF-ISO	SensorProx SF Format ISO Cards. 1K Smart Card Technology.
SF-KEY-G	SensorProx SF Format Keyfob. 1K Smart Card Technology, grey or yellow.
SF-DSK-R	SensorProx SF Format Desktop reader connected to PC via USB
SF-MF-CC CARD	Programming card to change any SensorProx SF reader from SF Format to SensorProx Mifare.  Can be used multiple times. Please see SF readers above
SP-MF-1K	SensorProx Mifare smart card. ISO Read/Write card 1K Bytes.
MF-DSK-F	SensorProx MIFARE Format Desktop reader connected to PC via USB
1. SP-MINI	2 SensorProx Format Mini Proximity Reader. Tri colour back lit reader.
2. SP-SG2	SensorProx Format Single Gang Proximity Reader. Tri colour back lit reader.
1 2 3 3. <b>SP-KPV</b>	SensorProx Format Keypad Proximity Reader, Tri colour back lit keypad. Touch sensitive.
SP-SHELL	SensorProx Standard Proximity Shell Cards.
SP-ISO	SensorProx ISO Printable Proximity Cards.
SP-KEY-R	2/G/B SensorProx Proximity Keytag with hole for key chain, red, green or blue
SP-DSK-R	SensorProx format Desktop reader connected to PC via USB
S-BIO-SP	Sensor Bio fingerprint reader with internal SensorProx card reader. Compatible with SensorProx readers/cards.
S-BIO-MF	Sensor Bio fingerprint reader with internal Mifare card reader. Compatible with SensorProx SF readers/cards & Mifare readers/cards.
S-BIO-MF	Sensor Bio fingerprint reader with internal Mifare card reader. Compatible with SensorProx SF readers/cards & Mifare readers/cards. WEATHERPROOF

Sensor Bio USB Desktop enrolment reader

S-BIO-USB

## Door Hardware



1. SPECIAL Integrated lock & reader. Double Cylinder

Integrated lock & reader. Handle Set

1.EB-1 Surface mount plastic exit button 2. EB-2

Surface mount, vandal resistant, stainless steel exit button

Surface mount, narrow style, plastic exit button

Surface mount, narrow style, vandal resistant, stainless steel exit button

Surface mount, stainless steel, large green dome exit button.



1. BGU-DP 2. BGU-R-DP

3. EB-3

4. EB-4

5. **EB-5** 

2. SPECIAL

Break Glass Unit, Double Pole, Green

Break Glass Unit, Resettable, Double Pole, Green



1. ML0022 2. ML0062

3.**LH0002** 

12/24V DC Slimline magnet, Up to 300kg holding force, Monitored

12/24V DC Slimline double magnet, Up to 300kg holding force, monitored

Z & L Brackets for slimline maglock (All inward opening doors require Z & L brackets)



1. ML0080 2. ML0074

3. HM0030

12/24V DC Standard magnet, Up to 500kg holding force, Monitored

12/24V DC Standard double magnet, up to 500kg holding force, monitored

Z & L Bracket for standard maglock



1. SHL1200 2. DX-200

12/24 V DC GS705 Shear Magnet, 30mm wide, Up to 1500kg Holding Force, monitored

Fail safe, entry-level solenoid bolt, 12/24V DC, IP 53 rated



1. GAER

2. ARU

Standard Fail Secure Release Kit, 12V AC/DC, Adjustable Jaw

Heavy duty ANSI Reversible Release, two faceplates, 12V DC



#### Warranty

With a 2 year warranty offered on our extensive product range you can rest assured with peace of mind of the quality of our products.

#### Stock

We stock a full range of products many available for next day delivery from our facilities in the UK.

#### **Customer Support**

Sensor Access has a core strength of being a specialist in access control. This means we can spend the time and effort required to offer our clients the most complete and up to date range of integrated access control solutions. The Sensor Access team is built from specialist engineers and management that have many years industry experience and bring with them vast experience and knowledge at both a domestic and international level.

Sensor Access has the ability and experience to work closely with its partners in the design, implementation and after sales support of projects across the globe. The sectors and projects that Sensor continue to be involved in include; Airports, Local Councils, Defence, Ports, Education facilities, Hospitals, Office facilities, Banks, Industrial and Blue chip installations.



