Access Control Solutions

sensoraccess.co.uk

sensor
ACCESS TECHNOLOGY

sensor
ACCESSTECHNOLOGY

Sensor Access United Kingdom

Sensor House, 10-11 Lewes Road, Brighton
East Sussex, BN2 3HP, UK

Email: sales@sensoraccess.co.uk

Sensor Access Europe

Noordwijk, Netherlands
Email: europesales@sensoraccess.co.uk

Sensor Access Saudi Arabia

Riyadh, Saudi Arabia
Email: saudisales@sensoraccess.co.uk

Sensor Access Middle East

Dubai, UAE
Email: uaesales@sensoraccess.co.uk

WHY CHOOSE US?

" SIMPLE
PROFESSIONAL
SECURE "

Route to Market

" The system user is our No 1 priority "

The system user is our No 1 priority, we have designed our Route to Market with this firmly in mind.

A company that would like to install our products will have to complete our training program before becoming an Accredited Partner - this is free of charge. The degree of Accreditation (Bronze, Silver, Gold or Platinum) will be governed by the level of training and expertise the installing company has achieved.

- **We will only sell our products to companies that are approved by either the NSI or SSAIB inspectorates. This removes the companies that do not have the appropriate insurances and standards in quoting for a project and protects the system user.**

- **We sell our products directly and save you paying the additional distributor's costs.**

- **We do not publish our prices, so your margins are your business.**

History

We are one of the UK's leading suppliers of integrated access control systems and locking hardware.

We offer an extensive range of readers such as smart cards, UHF and bio-metric readers as well as a variety of controllers and software packages.

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.

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

Ahmed Abbas
Managing Director

GuardPoint10

What is GuardPoint10?

GuardPoint10 is our next generation access control platform which seamlessly unites access, alarm and video into one platform. GuardPoint10 utilises state of the art technologies giving a powerful and elegant operator friendly solution. GuardPoint10 is a complete redesign of GuardPointPro focused on offering a new vibrant and engaging user experience. Some key features include:
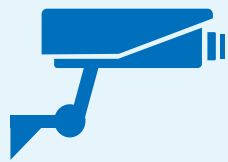
Video Management System

Time and Attendance

License Plate Recognition
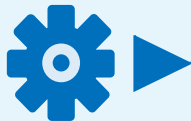
Display Photos

Alarm Management

Roll Call

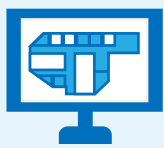SQL Database

Client Workstations
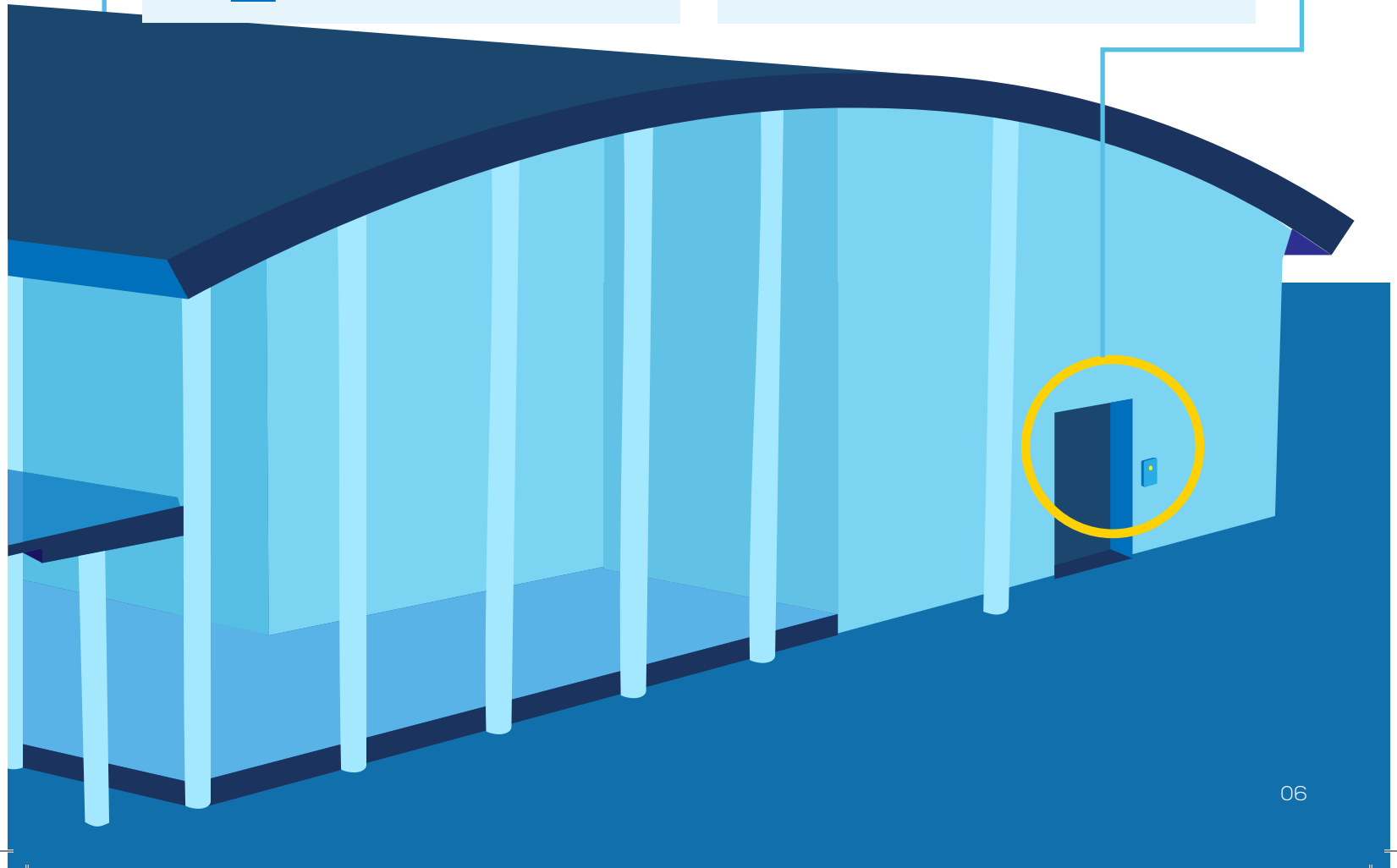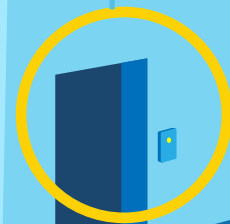
Badge Printing

Reporting

Global Reflex

Managed Access

Graphic Display

Biometric Integration

GUARDPOINT10
Key Features

Video Management

Link live and record video footage with your access and alarm events

Time & Attendance

A hassle-free timesheet report generation in different formats

Graphic Display

Display your buildings: doors, alarm detectors and cameras within a real-time graphical map

Roll Call

A quick and easy way to create a list of cardholders who are on the premises and a list of cardholders who are off the premises

License Plate Recognition

An alternative cardholder identification platform using car number plates

Display Photos

Live events are displayed along with the cardholders photo and basic information to provide a visual verification method

Managed Access

Manage cardholder's door access and time authorisations from an easy to use calendar

Reporting

Report on cardholders movements and alarm events in your desired structure and format. Live reporting is possible by organising your event viewer to show what you want and need to see

SQL database

SQL databases use long-established standard which can be used to retrieve large amounts of records from a database quickly and efficiently

Badge Printing

Produce personalised badges on demand based on automatic or manually selected templates

Alarm Management

Improve operator situation awareness by providing actionable information through multiple screens. Resolve a potential security breaches quickly and efficiently

Global Reflex

Define automatic operations. Specify conditions which will trigger an event.
For example, IF a specific cardholder is 'granted access' THEN 'disarm the alarm zone'

Biometric Integration

State of the art fingerprint biometric integration

Client Workstations

Add additional workstation application with user defined levels of access to manage the system from multiple locations

GuardPoint10 Technology Advantages

GuardPoint10 has been built from scratch using the most modern technologies; running in a server-client architecture that uses a SQL Server. GuardPoint10 has been built with security reliability as a priority.

GuardPoint10 is split into three independent layers that work with the database:

The Graphical User Interface (GUI): the front end of the software used for human interaction. The GUI is separate from the business code and communicates to the server via HTTP, meaning less load on the server and a higher level of security. The GUI can be installed on multiple computers as workstations

The Server: this is used to co-ordinate information between the GUIs and the database; this runs as a servie which means the PC can be left securely logged off and the server will continue to run

The Network Manager (NM): used to send and receive data to the controllers. The NM can download/up[load many controller networks at the same time (parallel programming) and ti also runs as a service with capability to be installed multiple times and different PCs for redundancy and load balancing
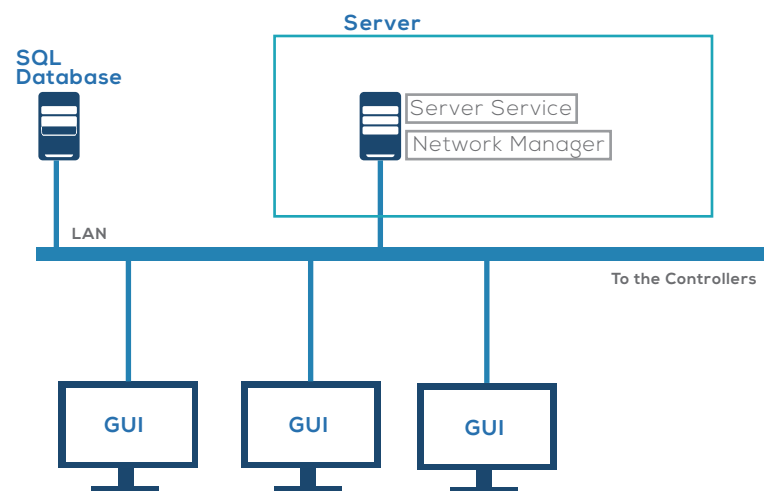

Figure 1: diagram of GuardPoint10 system schematic of the tri-layer structure

The process displayed in Figure 1 is demonstrative of how GuardPoint10 can be split into three layers - the Graphical User Interface (GUI), the Server, and the Network Manager (NM) and distributed over a network.

GuardPoint10 also uses a very efficient method of storing cardholders on the controllers **(Dynamic Memory Allocation).** Cardholders are only stored on the controllers relevant to their access group meaning higher capacity controllers are not always required for use on large sites (Figure 2).

Door Controllers

General Controller Overview

"

Individual controllers can manage 1, 2 or 4 doors and capacities start from 5,000 and can reach over 250,000 cardholders.

"

To complement GuardPoint10 software we offer a comprehensive range of intelligent controllers. Our IC controllers are designed to be flexible and scalable, ensuring they meet your project needs. Individual controllers can manage 1, 2 or 4 doors and capacities start from 5,000 and can reach over 250,000 cardholders.

Our controllers are also future-proof, enabling extra doors/ sites and site expansions. Distributed intelligence architecture means simple system design, full resilience and no downgrade in decision making at controller level. PoE, TCP/IP and standard RS485 can be supported. Our controllers come complete with power supplies and enclosures.

ENTRY LEVEL

IC500NX / IC1000NX
Intelligent Door Controllers

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 GuardPointPro software

Key Features

- 1 door 2 reader / 2 door 2 reader networkable controller
- 2,000 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

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

Events
IC500: Up to 10,000*
IC1000: Up to 8,700*

Inputs
IC500: 4x Inputs
IC1000: 4x Inputs

On Board TCP IP
IC500: Optional
IC1000: Optional

Doors
IC500: 1x Door
IC1000: 2x Door

Readers
IC500: 2x Readers
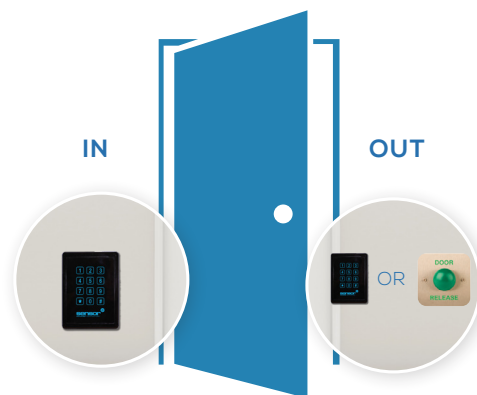IC1000: 2x Readers

Outputs
IC500: 3x Outputs
IC1000: 3x Outputs

Comms Bus
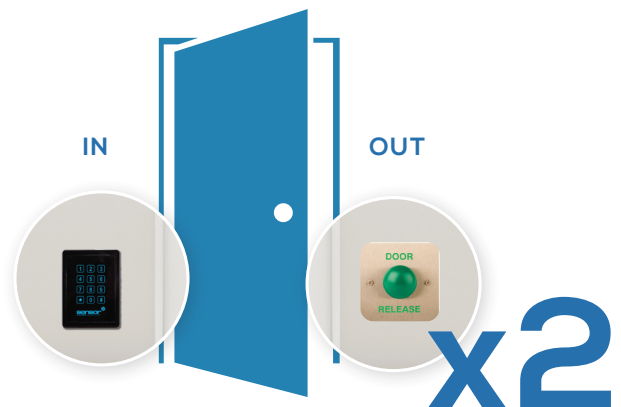IC500: 1
IC1000: 1

* Expandable dependant on cardholders

IC500 NX
2 Reader Controller for 1 Door

IN   OUT

OR

IC1000 NX
2 Reader Controller for 2 Doors

IN   OUT

x2

IC500NX / IC1000NX
Intelligent Door Controllers

Product Highlights

Communication is ensured and simple via the RS485 communication bus or via the built in TCP/IP interface (IC500NX-IP and IC1000NX-IP only).

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 attempts, door alarm, duress alarm and monitor cable.

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 and the use of removable connectors will greatly ease system installation along with diagnostic LEDs. The controllers can make independent decisions without computer intervention, and even if communication is lost the controller will still function.
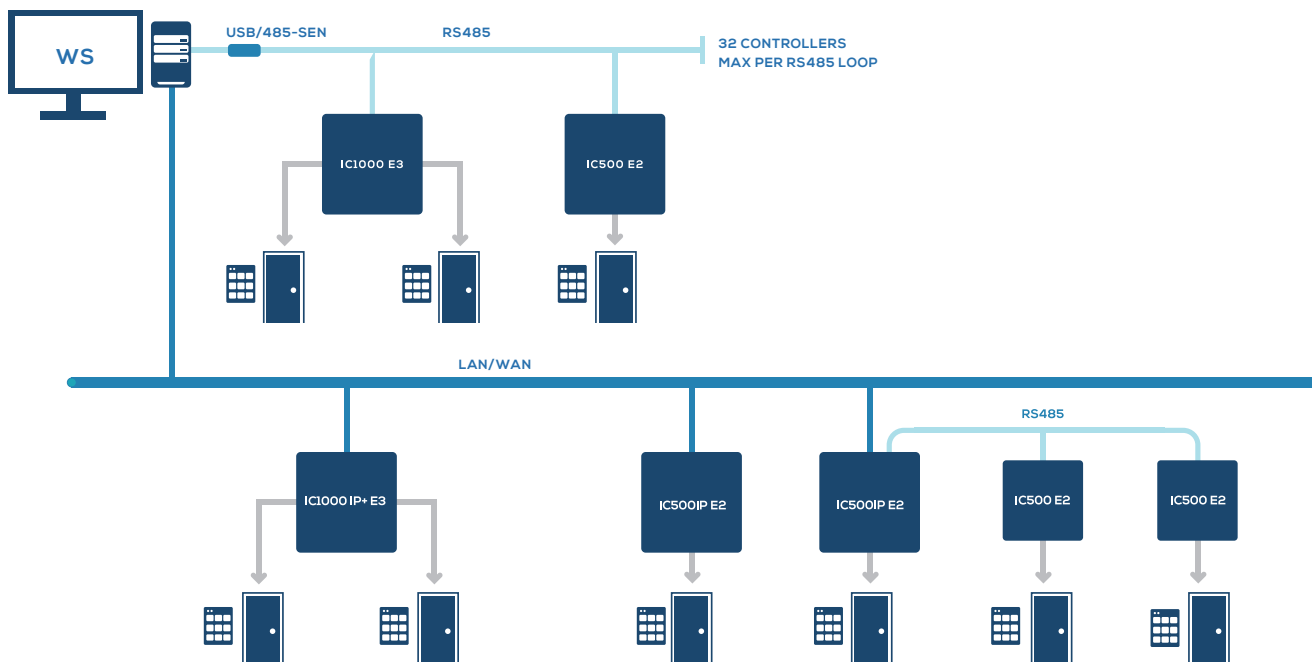
Part Numbers

IC500NX E2
2 Reader Controller for 1 door inc PSU
IC500NX-IP E2
2 Reader Controller for 1 door with IP inc PSU
IC1000NX E3
2 Reader Controller for 2 doors inc PSU
IC1000NX-IP E3
2 Reader Controller for 2 doors with IP inc PSU

Typical Applications

• Small to Medium Access Control Solutions
• Education Facilities
• Commercial Solutions

ADVANCED SERIES

IC2001 / IC4001
Intelligent Door Controllers

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 Third 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***

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

On Board TCP IP
IC2001: Optional
IC4001: Optional

Doors
IC2001: 2x Door
IC40001: 4x Door

Readers
IC2001: 2x Readers
IC14001: 2x Readers

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

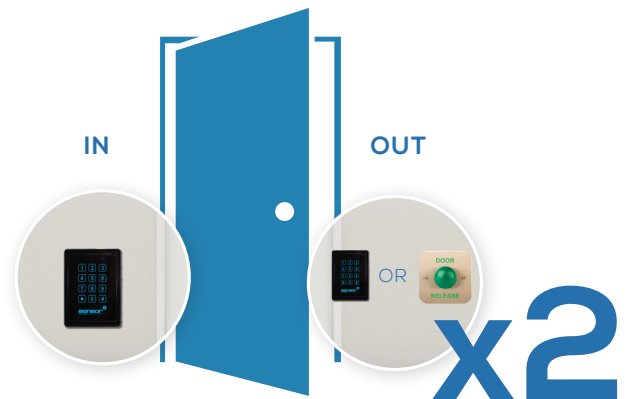**Comms Bus**
IC2001: 2
IC4001: 2

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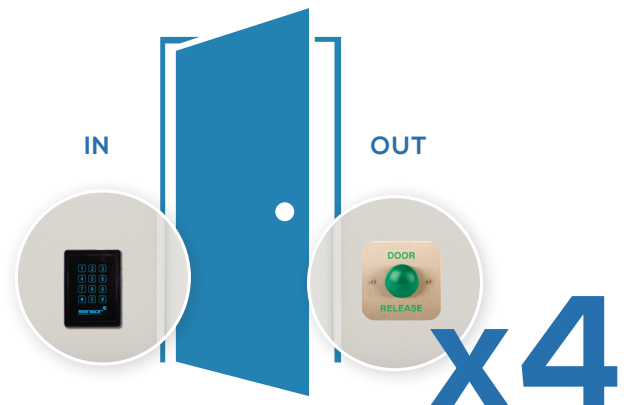*** Expandable dependant on cardholders

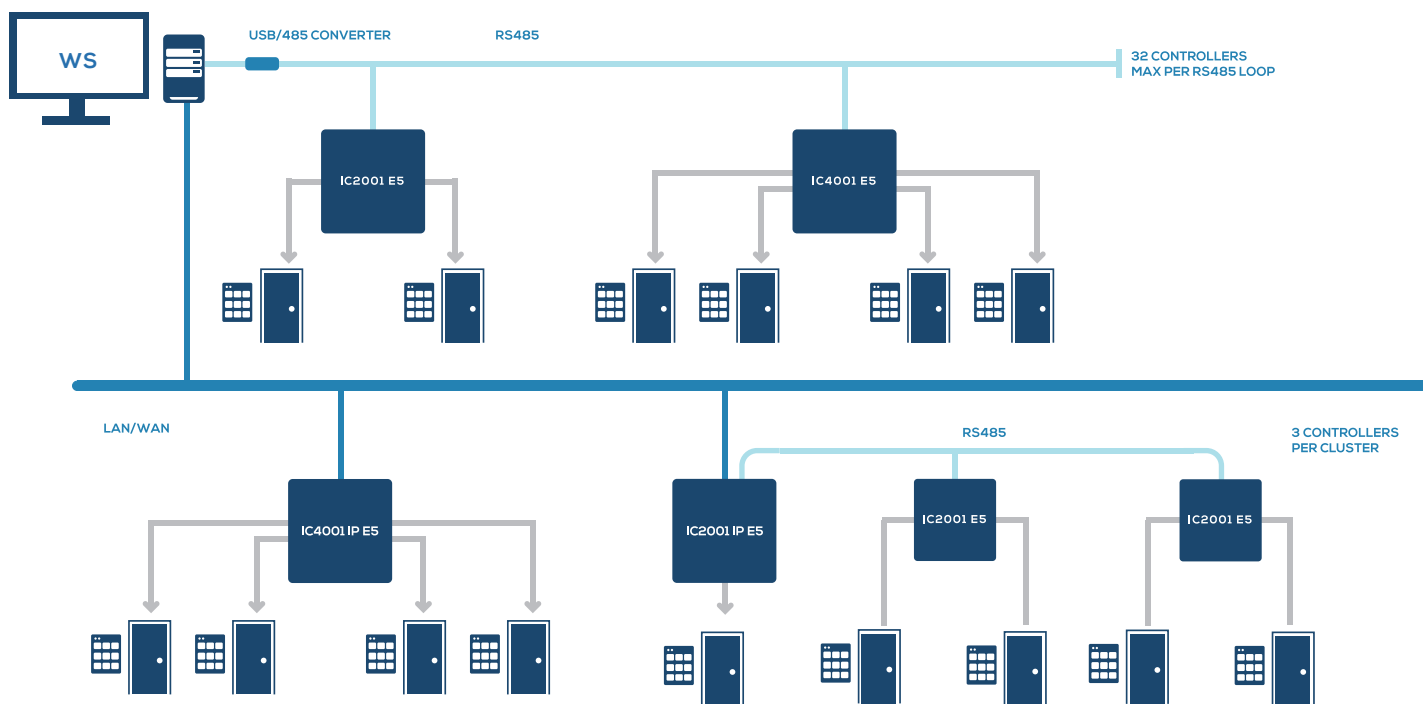### IC2001
4 Reader Controller for 2 Doors

IN   OUT

OR

x2

IC4001
4 Reader Controller for 4 Doors

IN   OUT

x4

IC2001 / IC4001
Intelligent Door Controllers

Product Highlights

✓ **High capacities** are reached via the high speed on board RAM which allows maximum capacities of 110,000 cardholders and 53,600 events in memory.

✓ **Simple installation** is achieved with PCBs supplied in specially designed boxes with industry specific power supplies and wiring diagrams.

✓ **High security** applications are covered on both the IC2001 and 4001 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.

✓ **Expandable inputs and outputs** mean 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.

WS · USB/485 CONVERTER · RS485 · 32 CONTROLLERS MAX PER RS485 LOOP · IC2001 E5 · IC4001 E5 · LAN/WAN · RS485 · 3 CONTROLLERS PER CLUSTER · IC4001 IP E5 · IC2001 IP E5 · IC2001 E5 · IC2001 E5

Part Numbers

IC2001 E5
4 Reader Controller for 2 doors inc PSU
IC2001 IP E5
4 Reader Controller for 2 door with IP inc PSU
IC4001 E5
4 Reader Controller for 4 doors inc PSU
IC4001 IP E5
4 Reader Controller for 4 doors with IP inc PSU
Controller for 2 door with IP inc PSU

Typical Applications

• Education facilities
• Healthcare and hospital applications
• Commercial and blue chip sites

Expansion boards
Intelligent Door Controllers

Extension Boards Overview

Cost effective solution for expanding inputs and outputs or TCP/IP on IC2001, IC4001, ICPRO and 1604 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 LEDs 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

Typical Applications

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

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

EXT-TCP/IP

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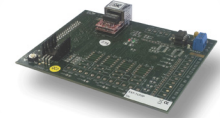
EXT-TCP/IP-IR

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

EXT-IRLED

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.

SAT 16

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

IC550 PoE
Intelligent Door Controllers
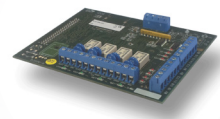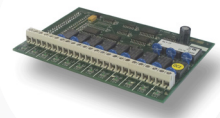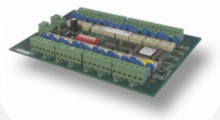
> **From a simple solution right through to a high security complex multi site application.**

Overview

The IC550 PoE controller is the first of its kind taking its required power directly from the TCP/IP cable with its embedded 12W PoE power supply.

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

WS

LAN/WAN

IC550   IC550   IC550   IC550
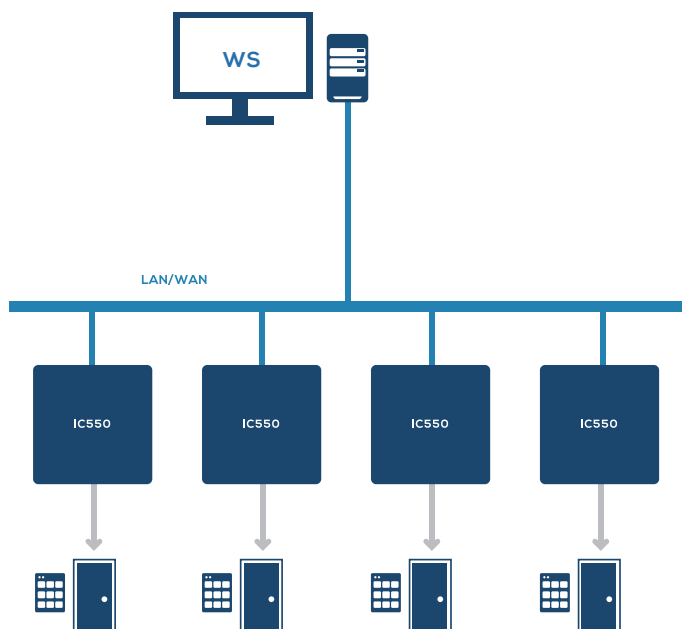
Key Features

- 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 Third Party readers
- FLASH upgradable memory
- Supply 700m A 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

IC PRO / IC 1604
Intelligent Door Controllers

IC PRO Overview

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

IC 1604 Overview

The IC1604 offers an optimal solution for real time monitoring of alarm points (e.g. PIRs, gas detectors, fire doors) and provides additional outputs for triggering other devices such as lighting and sounders.

Key Features

- Up to 266,000 cardholders and 53,000 events

- Optional secondary communication bus and third available for specific applications such as serial badge reader

- Built in TCP/IP Interface

Key Features

- Cost effective option for alarm monitoring where there are no doors to control

- Fully intelligent with on board memory

- Second communication bus option

- Up to 24 inputs can be monitored per controller

Part Numbers

ICPRO 2 E5
High capacity 4 reader 2 door controller inc PSU
ICPRO 2 IP E5
High capacity 4 reader 2 door controller with IP inc PSU
ICPRO 4 E5
High capacity 4 reader 4 door controller inc PSU
ICPRO 4 IP E5
High capacity 4 reader 4 door controller with IP inc PSU
IC1604 E1
Input and output controller in PSU
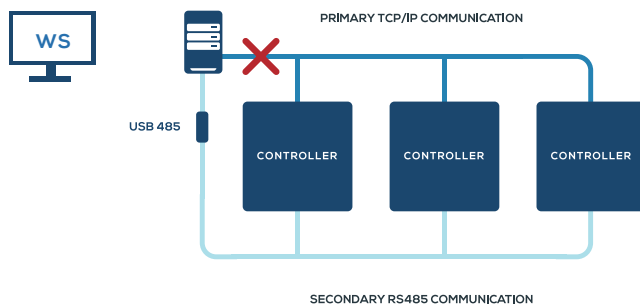
Typical Applications

• Government
• Defence Applications
• Commercial and Blue Chip

Advanced Controller Features
## Intelligent Door Controllers

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 the 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.
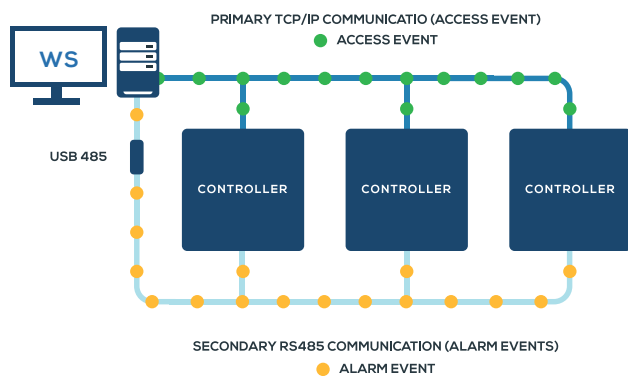
Alarm Priority Communication Bus

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 ensures fast and 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.
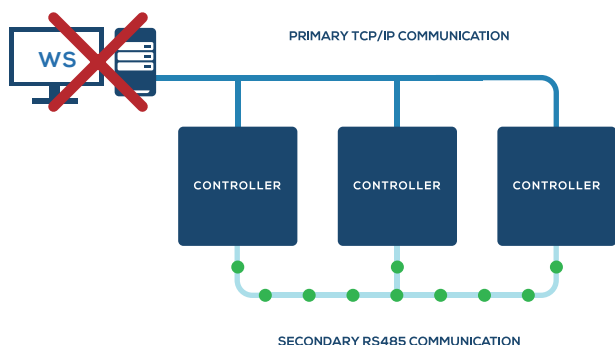
Global Anti-Pass back and network reflexes without Server

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

IC Controller Comparison Table
Intelligent Networked Door Controllers

	IC500NX	IC550PoE	IC1000NX	IC2001	IC4001	ICPRO2
User Capacity Standard	2,000	44,000	5,000	20,000	20,000	65,000
User Capacity Maximum	8,700	160,000	10,000	32,110	32,110	266,000
Event Buffering	10,000	24,000	8700	53,000	53,000	308,000
Maximum Doors	1	1	2	2	4	2
Maximum Readers	2	2	2	4	4	4
PSU Current Rating	2	N/A	3	5	5	5
Monitoring of Low Battery	✗	✗	✗	✓	✓	✗
Monitoring of Low Tamper	✗	✗	✗	✓	✓	✓
PSU Failed Monitoring	✗	✗	✗	✓	✓	✓
Inputs	4	4	4	8	8	8
Outputs	3	2	3	4	4	4
RS-232 / RS-485 Connectivity	✓	✓	✓	✓	✓	✓
TCP/IP Connectivity (Option)	✓	✓	✓	✓	✓	✓
Secondary Coms Bus (Option)	✗	✗	✗	✓	✓	✓
Third Com Bus	✗	✗	✗	✗	✗	✓
Diagnostic LEDs (Outputs)	✓	✓	✓	✓	✓	✓
Diagnostic LEDs (Inputs)	✗	Partical	✗	✓	✓	✓
Supported Technologies	** Supported on all controllers: Biometric, Smart Card, Proximity, Bar Code, Mag Stripe **					
Removable Terminals	✓	✓	✓	✓	✓	✓
Flash Firmware	✓	✓	✓	✓	✓	✓

SF Smart Card Readers Overview

The SensorProx SF range of readers are stylish yet practical and easy to install. All readers are e-poxy 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 and PC log-on. 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.

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, Plus and Desfire cards.

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

Part Numbers

SF-MINI
Sensor Prox SF mini smart card reader
SF-SG
Sensor Prox SF single gang smart card reader
SF-KPV
Sensor Prox SF single gang prox and pin reader
SF-DSK-RD
Sensor Prox SF format desktop reader

SF-MINI

Mini smart card reader

SF-SG

Single gang smart
Card reader

SF-KPV

Control keypad and
Smart card reader

SF-DSK RD

Desktop enrolment reader

Custom Reader Design

Overview

The Sensor Prox reader range can be manufactured and customised with your own unique design. Company/ end user logos can easily be implemented to the front plate of the reader.

If you also need your reader to be of a particular format to suit an exsiting card population. Sensor can offer the readers in multiple formats such as Desfire, Mifare and HID

Bluetooth Reader

Overview

The Sensor Mobile ID is a secure user-friendly identification solution bringing the access badge onto Android™ and iOS® smartphones. Compliant with existing access control systems, the Architect Blue reader identifies Bluetooth Smart smartphones thanks to many Prox or hands-free identification modes. It can work alongside or replace traditional access badges.

Unique user experience:
Sensor offers five innovative identification modes for intuitive, smooth and easy management of your access control system by:
- **Badge Mode:** placing your smartphone in front of the reader
- **Remote Mode:** controlling your access points remotely
- **Tap Tap Mode:** tapping your smartphone twice in your pocket for near or remote opening
- **Slide Mode:** placing your hand close to the reader without taking out your phone
- **Hands-free Mode:** passing in front of the reader without presenting the smartphone

Long Range Reading Options
Reading Technologies

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, or 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
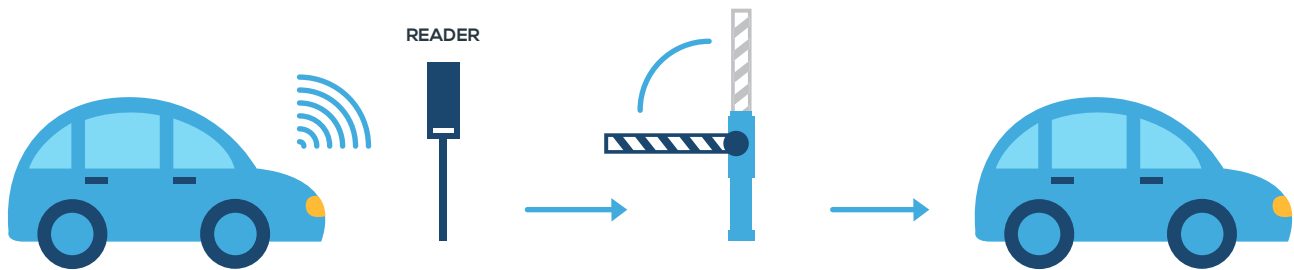
READER

Typical Applications

- Government
- Defence Applications
- Commercial and Blue Chip

Wireless Readers
## Reading Technologies

Overview

Wireless readers are an innovative new option that offer 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 and clean Installation

- Ideal of non-profit situations

- Wireless handle also avaliable

WS

LAN/WAN

WIRELESS HUB

WIRELESS HUB

IC2001 IP E5

WIRELESS CYLINDER

WIRELESS HANDLE
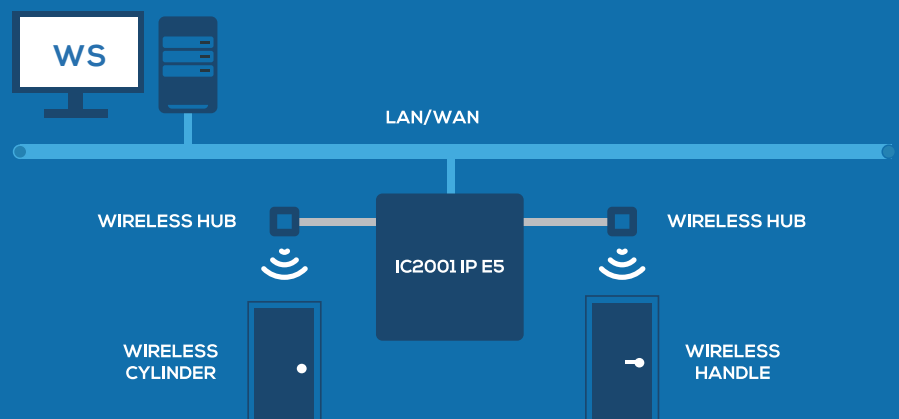
BioEntry W2

World's Most Advanced Outdoor Fingerprint Access Control Device

Overview

The Bio Plus W2 is a IP-based rugged fingerprint access control device.

The Bio Plus W2 provides class-leading performance and security using a powerful quad-core CPU.

The live finger detection technology blocks fake fingerprints made from various materials including clay, rubber, silicon, glue, paper and film.

Packed in a rugged IP67/IK09 housing with sleek metal finish, BioEntry W2 is a perfect access control solution for tough environments and outdoor installations.

Key Features

- Power over Ethernet (PoE)
- Live Finger Detection Technology
- Dual Frequency, Multi-Smartcart Reader
- IK09 Vandal-proof Structure
- IP67, Dust & Waterproof
- World's Fastest Outdoor Fingerprint Device

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
BIO-USB is designed for easy enrolment and practicality on site

Gwent Hospital, UK

After a vigorous selection process, a GuardPointPro system was installed over 5 sites across 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, continually adding new locations and continuing to grow successfully.

Healthcare Centre, Dubai

With our wealth of experience and proven extensive product range, Sensor Access was approached regarding an access control solution for a new healthcare centre in Dubai. Sensor Access were selected at the end of the tendering process to be the product to control this busy and demanding site. GuardPointPro, along with a range of IC2000 & IC4000 controllers, were installed to create a system controlling over 30 doors.

The 'Badge Production' module has been used to print all staff IDs on site as well as Sensor's biometric readers for the highest security areas in the centre.

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 GuardPointPro system and intelligent door controllers ensuring both patient and staff safety.

It was important to control all internal doors and therefore 27 wireless cylinder locks were installed which was managed from GuardPointPro, offering the client a more cost-efficient option where lower security functions were required.

St Mary Magdalene Academy

In 2007 - after a new building was constructed and the school gained academy status - upgrading the security system to meet the demands of a modern school became part of the project. A 60-door GuardPointPro system was installed with a range of Sensor Access' intelligent IC-controllers and mifare proximity readers. With over 1,200 pupils, it was important for the academy to minimise administration of the system. GuardPointPro was installed running an SQL server and was linked with the school's current HR database to populate GuardPointPro automatically.

Barnsley College

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

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

Oxford School

A GuardPointPro 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 fingerprint 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 both parents and students. The system has proved future-proof to date and will continue to grow and meet their expectations.

Sports Hub, Singapore

A new prestigious 55,000 capacity national stadium - housing 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 IC500-IP controllers running on PoE, biometric readers, and 400 Sensor format PROX and PIN readers.

GuardPointPro 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.

Saadiyat Island Resort, Abu Dhabi

With its 9km arc of pristine white sand, Saadiyat Beach is a much sought-after location for leisure seekers and high-end real estate. With this new luxury resort it was therefore important to consider security. A 45-door system was installed over the complex to limit access to each block and apartment. A GuardPointPro system was installed together with a number of IC500 controllers and mifare readers.

The IC500 was ideal for this application as controllers were installed locally at each block. The IP version was used on many of the sites keeping the installation simple and cost effective. Mifare cards and readers were used to allow the site to maximise potential of smart cards for other applications.

National Theatre, Bahrain

The National Theatre of Bahrain includes a main 750-seat auditorium designed for drama, music and conferences.

With such an iconic national building, it was important to ensure that security was covered. A GuardPointPro 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

This prestigious project is located at the heart of business bay in Dubai, utilising many integrations within GuardPointPro, including CCTV integration and OPC server interface for automatic database population from existing HR database.

This site is also using the Badge Production and Alarm Control module to provide a simple and user-friendly powerful front end in one software.

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

Sovereign House, UK

This system was installed over the client's existing TCP-IP network which minimised installation costs. This also meant minimal decorative disruption for the building. A 50-door GuardPointPro system was installed on site using the stylish SF range PIN & PROX readers as well as a long range reader for the car park. The car park is also being managed by GuardPointPro Parking module which allows for counting in and out and limiting entrants to the number of spaces available. Sovereign House also 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 GuardPointPro 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, whose widespread and exposed site requires 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. GPP was used as an integration platform with the Pelco CCTV system. Commands were sent from GuardPointPro to either trigger a live camera or take a dome to a preset. By deploying a second communication bus on all controllers, this provided a communication redundancy option ensuring the highest level of security.

Software
Product List

GP10-Entry GuardPoint 10 Entry access control software. Real time reporting for systems up to 2,000 users, 32 controllers and 32 readers. Features SQL database, Reporting, Alarm Graphics, Badge Printing, biometric intergration, Video integration with HiKVision, Graphical maps (limited to 3), License plate recognition.

GP10-48R GuardPoint10 additional 48 readers package - Extends the GP10 license by 48 readers and controllers

GP10-1000B GuardPoint10 additional 1000 badges package - Extends the GP10 license by 1000 badges

---

GP10-WS GuardPoint10 additional workstation - provides a license to allow GP10 to be installed onto an additional PC as a client to the server. 1 license needed per client

GP10-G8 GuardPoint10 Graphical module - Gives GP10 the ability to use unlimited graphical maps

GP10-LM GuardPoint10 Destination Lift Control module - Gives GP10 the ability for destination lift control intergration via inputs/outputs

GP10-BDG GuardPoint10 Badge design and Print package –provides the ability to design and print custom badge designs

GP10-V8+ GuardPoint10 Video Intergration - GP10 will act as a VMS linking video to event and alarm transactions. Compatable with HiK Vision, Milestone and ONSSI

GP10-GXY GuardPoint10 Integration with Honeywell Galaxy intrusion systems. Gives GP10 the ability to recieve alarm transactions from the Honeywell galaxy panels via TCP/IP

GPP-WV GuardPoint10 Visitor Web applicaiton allows managment of visitors and meetings via web portal
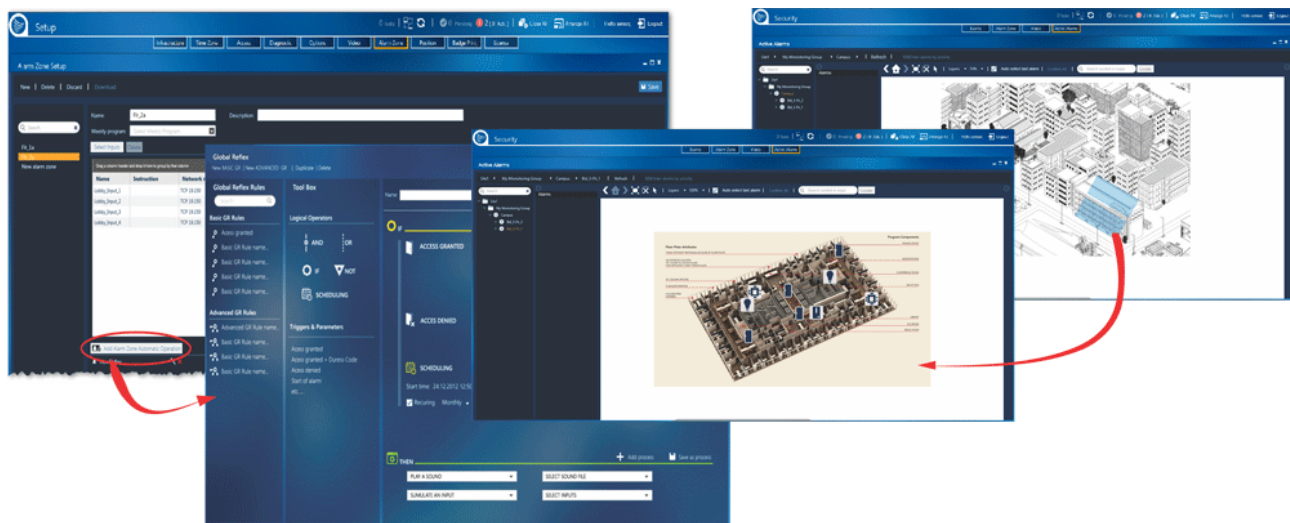
Controllers
Product List

IC500NX E2 — 1 Door / 2 Reader Controller, 4 inputs, 3 outputs, 2,000 cardholders (expandable to 8,700) Housed within a metal cabinet with 2A 12VDC Power Supply

IC500NX IP E2 — As Above with embedded IP

IC1000NX E3 — 2 Door / 2 Reader Controller, 4 inputs, 3 outputs, 2,000 cardholders expandable to 8,700) Housed within a metal cabinet with 3A 12VDC Power Supply

IC1000NX IP E3 — As Above with embedded IP

IC2001 E5 — 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 5A 12VDC Power Supply

IC2001 IP E5 — As above with embedded IP

IC4001 E5 — 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 5A 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 5A 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 5A 12VDC Power Supply

IC PRO 4 IP E5 — As above with embedded IP

IC1604 E1 — Alarm Controller with processor flash memory, 16 inputs (expandable to 24) 4 relay outputs (expandable to 56) Housed within a metal cabinet with 2A 12VDC Power Supply

---
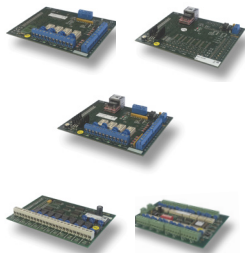
1. EXT IRLED — Plug In Extension board with 8 supervised inputs, 4 relays and 4 LED controls for card readers (Compatible with IC2000, IC4000 ICPRO2, ICPRO4 & IC1604)

2. EXT-TCP/IP — Plug In Extension board offering TCP/IP interface and RS485 bus to other IC's (Compatible with IC2000, IC4000 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 IC2000, IC4000 ICPRO2, ICPRO4 & IC1604)

4. RLY-12 — 12 relay plug in extension board (Compatible with IC2000, IC4000 ICPRO2, ICPRO4 & IC1604)

5. SAT-16 — Satellite Relay Module with 16 additional relays. Three can be connected to each IC controller. (Compatible with IC2000, IC4000 ICPRO2, ICPRO4 & IC1604)

---

1. USB/485-SEN — USB to RS485 communication interface

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

Readers & Cards
Product List

|		
	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
	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/Y	SensorProx SF Format Keyfob. 1K Smart Card Technology, grey or yellow
	SF-DSK-RD	SensorProx SF Format Desktop reader connected to PC via USB
	SF-MF-CONFIG-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-RD	SensorProx MIFARE Format Desktop reader connected to PC via USB
	1. SP-MINI2	SensorProx Format Mini Proximity Reader. Tri colour back lit reader
	2. SP-SG2	SensorProx Format Single Gang Proximity Reader. Tri colour back lit reader
	3. SP-KPV2	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/G/B	SensorProx Proximity Keytag with hole for key chain, red, green or blue
	SP-DSK-RD	SensorProx format Desktop reader connected to PC via USB
	S-BIO-MF-W2	SensorBio Fingerprint reader with internal multi card reader. Compatable with SP & Mifare readers/cards. Weather Proof, PoE, IP67/IK08

Door Hardware
Product List
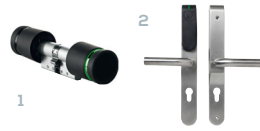
1. SPECIAL	Integrated lock & reader. Double Cylinder
2. SPECIAL	Integrated lock & reader. Handle Set

1.EB-1	Surface mount plastic exit button
2. EB-2	Surface mount, vandal resistant, stainless steel exit button
3. EB-3	Surface mount, narrow style, plastic exit button
4. EB-4	Surface mount, narrow style, vandal resistant, stainless steel exit button
5. EB-5	Surface mount, stainless steel, large green dome exit button

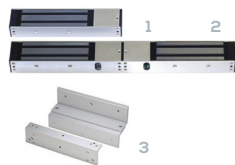|	
1. BGU-DP	Break Glass Unit, Double Pole, Green
2. BGU-R-DP	Break Glass Unit, Resettable, Double Pole, Green
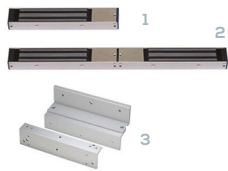
|	
1. ML0022	12/24V DC Slimline magnet, Up to 300kg holding force, Monitored
2. ML0062	12/24V DC Slimline double magnet, Up to 300kg holding force, monitored
3. LH0002	Z & L Brackets for slimline maglock (All inward opening doors require Z & L brackets)

1. ML0080	12/24V DC Standard magnet, Up to 500kg holding force, Monitored
2. ML0074	12/24V DC Standard double magnet, up to 500kg holding force, monitored
3. HM0030	Z & L Bracket for standard maglock
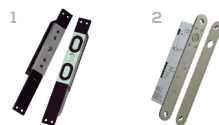
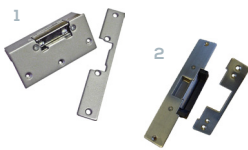|	
1. SHL1200	12/24V DC GS705 Shear Magnet, 30mm wide, Up to 1500kg Holding Force, monitored
2. DX-200	Fail safe, entry-level solenoid bolt, 12/24V DC, IP 53 rated

1. GAER	Standard Fail Secure Release Kit, 12V AC/DC, Adjustable Jaw
2. ARU	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, with many available for next day delivery at 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.

Contact Details

Sensor Access Technology Ltd
Sensor House, 10-11 Lewes Road
Brighton, East Sussex, BN2 3HP
United Kingdom

Tel. +44 (0)1273 242 355
Fax. +44 (0)1273 235 030
Email. sales@sensoraccess.co.uk
Web. www.sensoraccess.co.uk

Sensor Access Technology
@sensoraccess
Sensor Access Technology