



# VANTAGEPOINT

Access Control Solutions

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# Introduction

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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.

"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."



Ahmed Abbas  
Managing Director



## Sensor Access United Kingdom

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

Email: [sales@sensoraccess.co.uk](mailto:sales@sensoraccess.co.uk)

## Sensor Access Europe

Noordwijk, Netherlands  
Email: [europesales@sensoraccess.co.uk](mailto:europesales@sensoraccess.co.uk)

## Sensor Access Saudi Arabia

Riyadh, Saudi Arabia  
Email: [saudisales@sensoraccess.co.uk](mailto:saudisales@sensoraccess.co.uk)

## Sensor Access Middle East

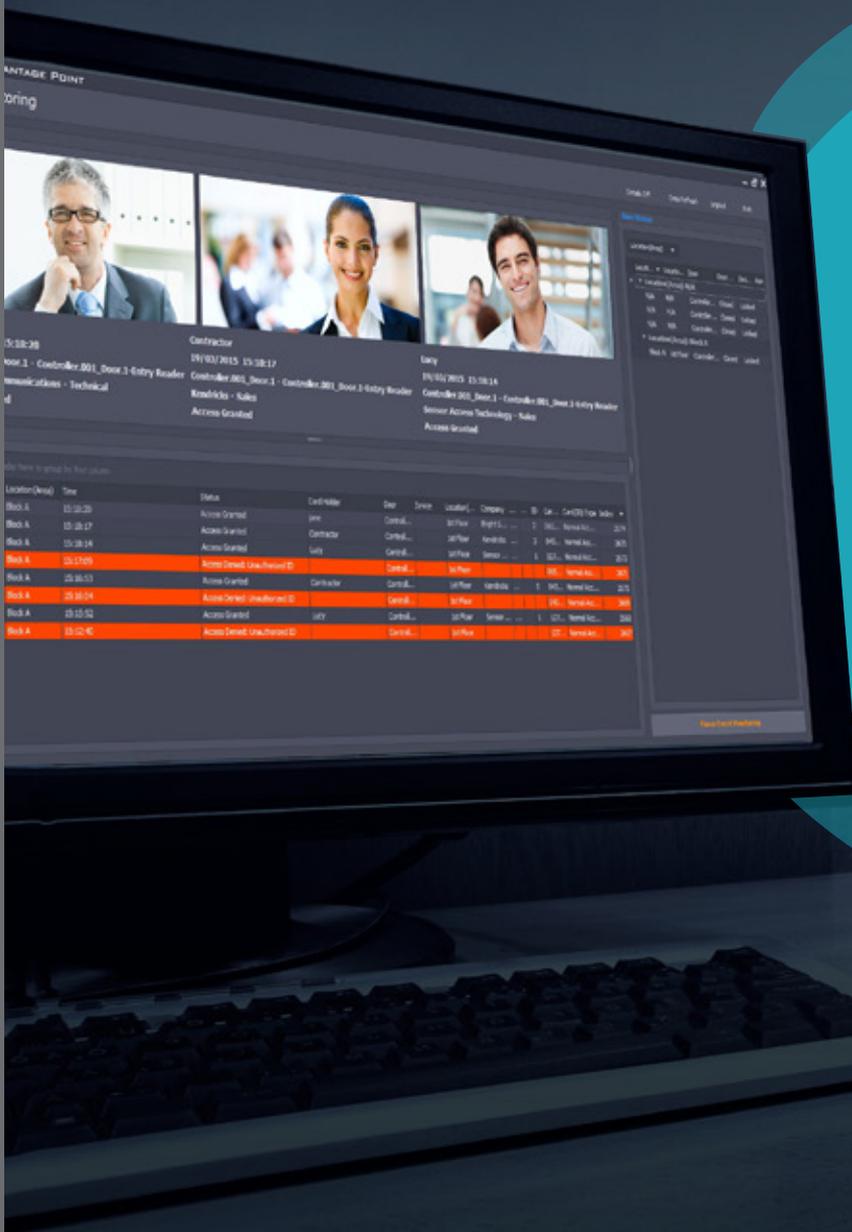
Dubai, UAE  
Email: [uaesales@sensoraccess.co.uk](mailto:uaesales@sensoraccess.co.uk)



# VantagePoint

## Software Overview

VantagePoint Software has been built utilizing the latest software development tools and designed with simple and intuitive user experience in mind. Utilising Microsoft dot NET Framework and using the latest MS SQL provides a high performance, stable and scalable system that you can rely on. Following the same methodology as the software the VantagePoint controllers feature high end specifications with adapted high speed encrypted data communication and a on-board web interface.



## Key Features

- Intuitive User-Friendly Interface
- Controller Auto Detection
- Large System Capabilities
- User Friendly Software
- Multiple Workstations
- Extensive Reporting
- SQL Database
- High Level 3DES Encryption
- Time and Attendance
- Alarm Monitoring
- Multiple Access Cards Per Person
- Graphical Maps with Icons
- CCTV Integration Management Platform
- Global Anti-Passback
- Full Report Generation
- Biometric Integration

# VantagePoint

## Software Comparison Table

Features	VantagePoint Express	VantagePoint Enterprise
Cardholder Limit	100,000	100,000
Number of Readers	32	400
MS SQL Database	✓	✓
Biometric Integration (Finger)	✓	✓
Time & Attendance	✓	✓
Cashless Vending	✓	✓
Badge Design	✓	✓
Site Graphics	✓	✓
Global Anti-pass back	✓	✓
Event Reporting	✓	✓
Cardholder Reporting	✓	✓
User Monitoring Permissions	✓	✓
Controller Auto Detect	✓	✓
Cardholder Import	✓	✓
Batch Modification	✓	✓
10 x Intervals per day time schedule	✓	✓
Embedded Web Access	✓	✓
Visitor Management	x	✓
Additional Workstations	x	✓
Biometric Integration (Iris)	x	✓
CCTV Integration	x	✓

### Part Numbers

#### VP-EXP

VantagePoint express access control software. 32 readers and 100,000 cardholders.

#### VP-ENT

VantagePoint enterprise access control software. 400 readers and 100,000 cardholders.

#### VP-CV

VantagePoint integrated cashless vending module.

#### VP-CCTV

VantagePoint integrated CCTV video management module.

#### VP-VM

VantagePoint visitor management module.

#### VP-IRIS

VantagePoint integrated Iris enrolment module.

#### VP-ENT-WS

VantagePoint additional workstation license.

# VantagePoint

## Express Edition



## Overview

The VantagePoint Express edition is an excellent choice for systems up to 32 readers. VantagePoint is easy to configure with auto detect capabilities for a rapid install and user friendly system.

- SQL Database
- Full Report Generation
- 100,000 cardholder capacity
- Integrated Biometrics
- Time and attendance
- Graphical Maps

## Key Features

- Auto Detect ,Quick Setup utility
- Efficient event reporting
- Quick and simple to install and use



### Part Numbers

VP-EXP

VantagePoint express software, 32 readers, 100k users



# VantagePoint

## Enterprise Edition

### Key Features

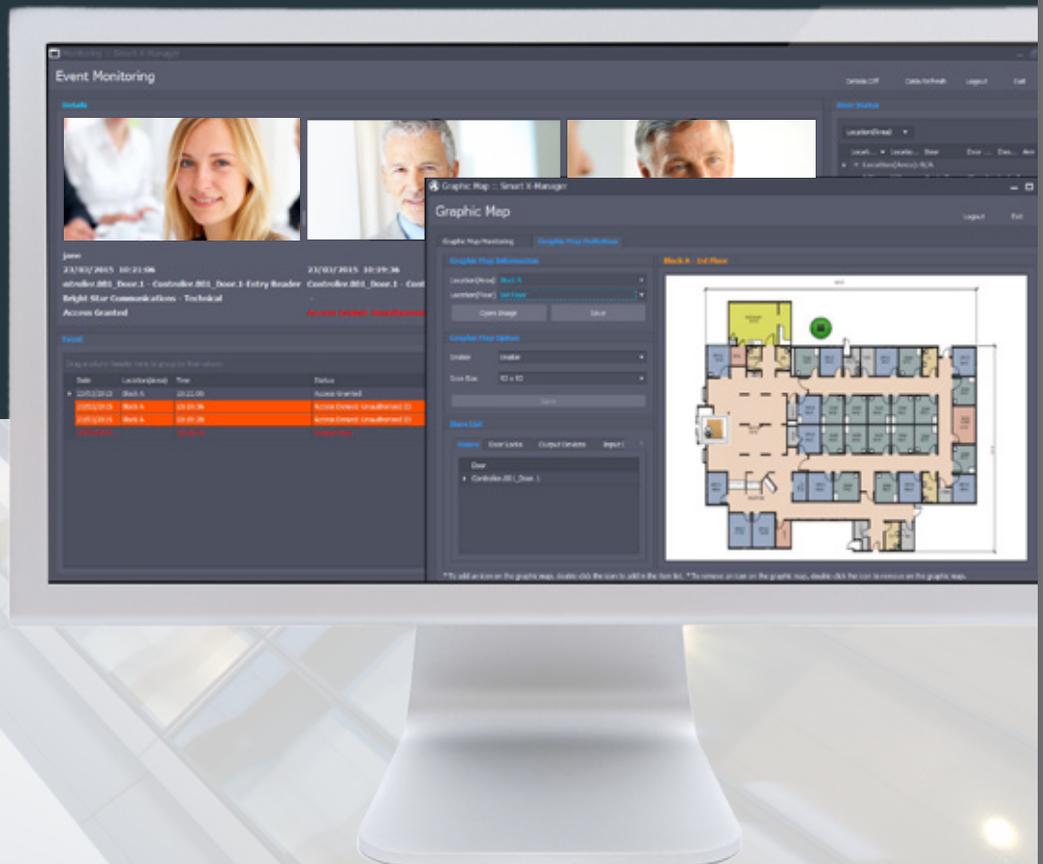
- Server Workstation Architecture
- Multiple Access Cards Per Person
- Multi Tenant Log in Option
- Flexible and Customizable Reporting
- Batch Modification of Cardholders

### Overview

VantagePoint Enterprise brings the latest technology in software and hardware into a truly powerful converged platform.

VantagePoint supports Microsoft SQL Server and is designed in server/client architecture in order for multiple users to access and manage the system at the same time.

Fully integrated fingerprint and Iris Management as well as high level 3DES data encryption means VantagePoint can be used for high security sites with no compromise.



#### Part Numbers

VP-ENT

VantagePoint enterprise software, 400 readers, 100k users

06/07

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# VantagePoint

## Modules

With VantagePoint enterprise there are several advanced options available which help to build your security platform and integrate other key security features.

### Cashless vending

- Credits can be issued and deducted from cardholders
- Flexible credit values can be assigned to each reader
- Extensive reporting

### CCTV Integration

- Graphical user friendly interface
- Link camera footage to events
- Show live footage from the map screen
- Display cardholder details and still cut images with each transaction

### Visitor management

- Touch screen operation
- Quick, simple and user friendly
- Signature scanning option
- Customisable to meet your requirements
- Web based client booking system

### Biometric Integration

- One simple user friendly interface
- Seamless integration with Iris recognition system
- Ideal for any high security area or building



### Part Numbers

#### **VP-CV**

VantagePoint integrated cashless vending module

#### **VP-CCTV**

VantagePoint integrated CCTV module

#### **VP-VM**

VantagePoint integrated cashless visitor module

#### **VP-ENT-WS**

VantagePoint additional workstation

## Key Features

- Cashless Vending
- Full CCTV management
- Visitor Management
- Iris Management
- Fingerprint and Iris Management



# Door Controllers

## VantagePoint Door Controllers Overview

### Overview

Complementing the powerful VantagePoint software, we offer a comprehensive range of intelligent controllers and expansion boards.

Our VC controllers are flexible and scalable ensuring they meet your project needs. Individual controllers can manage 2 or 4 doors with 100,000 users capacity and 50,000 event transaction buffer.

Distributed intelligence architecture means simple system design, full resilience and no downgrade in decision making at controller level. Controllers are supplied complete with a metal enclosure and power supply.

# Door Controllers

## Vantage Controller

### Overview

The vantage controller comes in two variants the VC2 and VC4. The VC2 provides 2 readers and VC4 provides 4. The readers can be used for either read in/out or read in and exit button out (see figure 1).

Both controllers feature a 32-bit ARM9 processor as well as 100MB Ethernet communication which provides a throughput 8 times higher than serial-to Ethernet converters. The VantagePoint controller also features an embedded web interface which can be used for configuration/diagnostic and card enrolment.

### Product Highlights

**High Capabilities** are provided by the 32mb flash memory and 64mb RAM, offering 100,000 cardholder capacity and 50,000 event transactions.

**An Ethernet Connection as Standard** allows you to easily connect vantage controllers to an existing network infrastructure. The controllers are auto detected via the software and the reader format is self-configuring for quick commissioning.

**High Speed Communication** is achieved from a multiple packet Tx/Rx protocol for fast two-way data transmission. Global anti-pass back and input /output triggering does not rely on the server software. Communication is also utilizes 3DES data encryption.

**The Installer Friendly Design** offers 12 inputs: 8x4 state inputs (ON/OFF/CUT/SHORT) and 4x2 state inputs for tamper and PSU fail. The controllers have 8x10 amp relay outputs for the most demanding of locking mechanisms as well as all terminal blocks being removable.

**On-board Web Interface** allows for direct cardholder registration and input/output control and monitoring.



# Door Controllers

## Vantage Controller

Figure 1: The diagram below shows the controllers in a read in and exit button out configuration.

### VC2

2 Reader Controller for 2 Doors

### VC4

4 Reader Controller for 4 Doors



## Specifications



### Cardholders

100,000



### Events

50,000



### Doors

VC2: 2x Door  
VC4: 4x Door



### Readers

VC2: 2x Readers  
VC4: 4x Readers



### Inputs

VC2: 12x Inputs  
VC4: 12x Inputs



### Outputs

VC2: 8x Outputs  
VC4: 8x Outputs



### On Board TCP IP

VC2/4 as standard



### Comms Bus

VC2/4 adapted multiple packet TX/  
RX data transmission

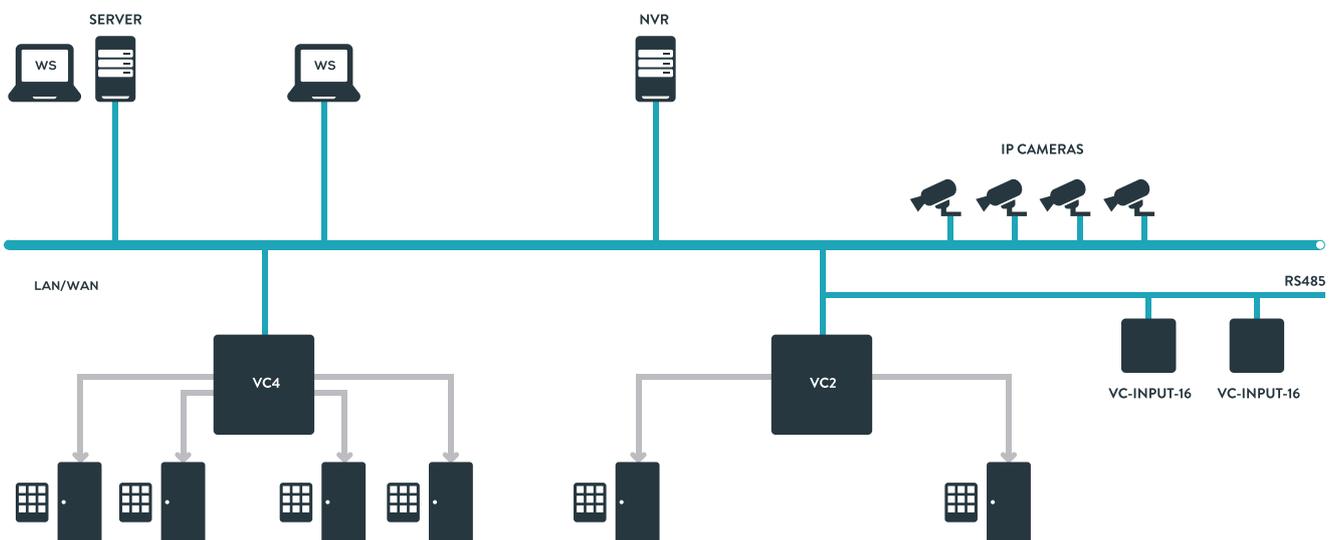
# Door Controllers

## Vantage Controller

### Key Features

- On-board Ethernet Communication
- Embedded Web Interface
- Adapted Multiple Packet Communication for Fast Communication
- Four-state Supervised Inputs
- User-Defined Reader Format Supported
- Global, Timed and Soft Anti-pass back
- 256 Time Schedules
- 50,000 Transaction Buffer, 100,000 Cardholders
- Global input/output Linkage Function
- Global and S/W arm/disarm Command
- Auto Converting Function of Reverse DC Input
- Lithium Battery for RTC Backup
- LED Display of Operation Status
- Electric Noise Protection Circuit
- Removable Terminal Blocks
- Expandable Inputs and Outputs
- Metal Enclosure and 5 Amp PSU

### Network Diagram



#### Part Numbers

##### VC-2-B5

VantagePoint smart IP controller 2 door boxed in 5 Amp PSU

##### VC-4-B5

VantagePoint smart IP controller 4 door boxed in 5 Amp PSU



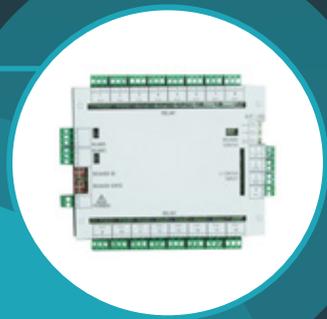
# Extension Boards

## Overview

The Vantage extension boards provide additional inputs and outputs to the vantage controller via an on-board RS485 connection. The VantagePoint extension boards can be positioned anywhere around the building where required. Fully controlled from the VantagePoint software the boards come complete with metal cabinet and power supply. Each VantagePoint door controller can connect up to two input and two output extension boards.

### VC-RLY-16

- Additional 16 relays
- 10 amp rating on relay outputs
- Connect to the controller via 485 bus
- Connect up to 2 boards per controller total 40 outputs
- Ideal for lift control applications

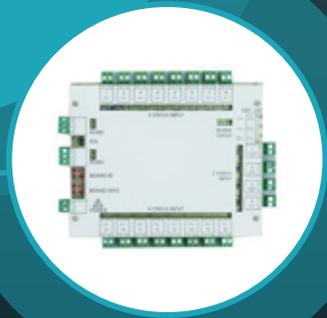


## Key Features

- Easy integration option
- Ideal for BMS applications
- Alarm Monitoring
- Lift control
- Flexible and scalable

### VC-INPUT-16

- Additional 16 inputs
- Full 4 state input monitoring
- Connect to the controller via 485 bus
- Possible to connect up to 2 boards per controller, total 44 inputs
- Ideal for perimeter, door or window monitoring



#### Part Numbers

##### **VC-INPUT-16-B2**

16 x Input module complete with 2A PSU in metal cabinet

##### **VC-RLY-16-B2**

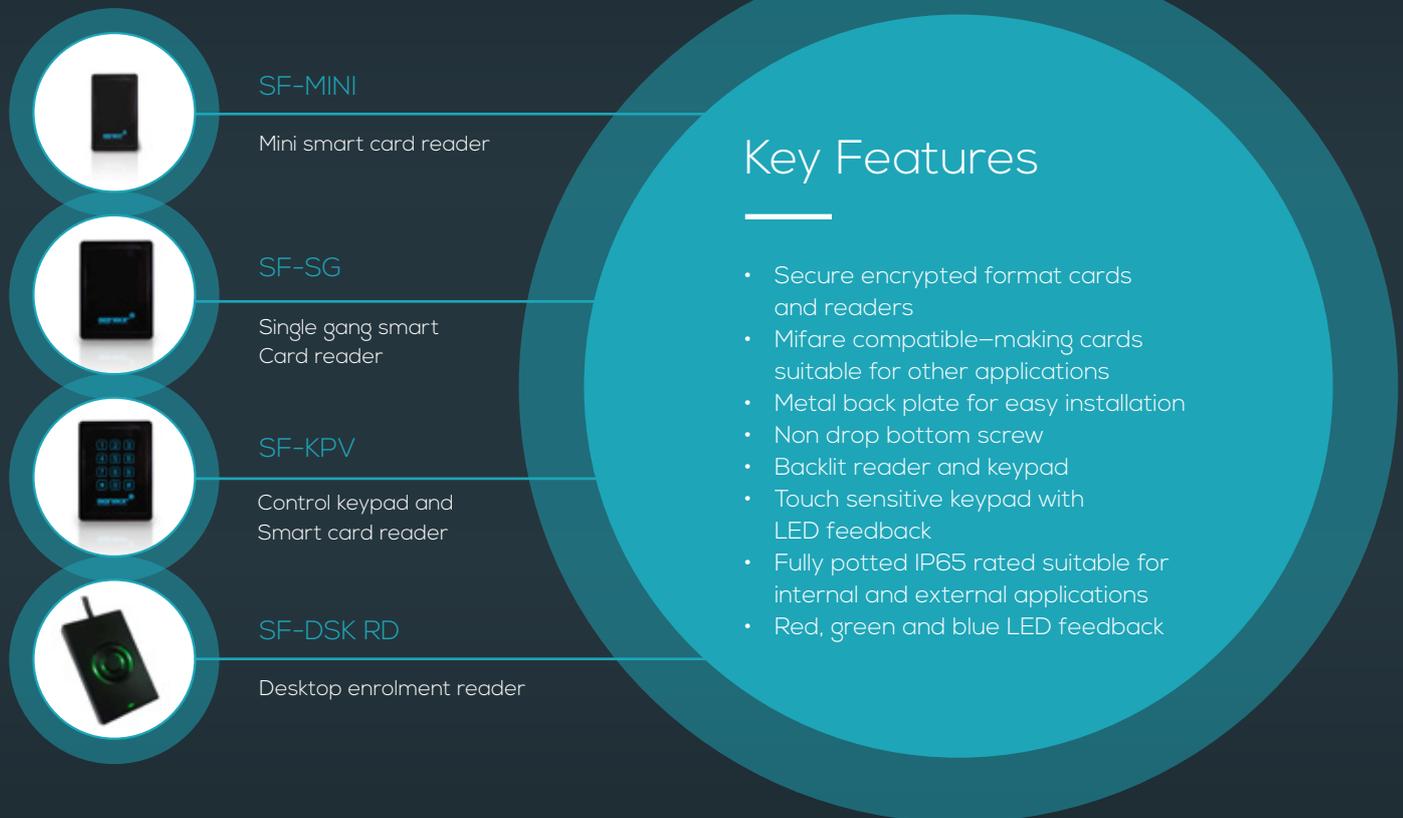
16 x Output module complete with 2A PSU in metal cabinet

# 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.



#### 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

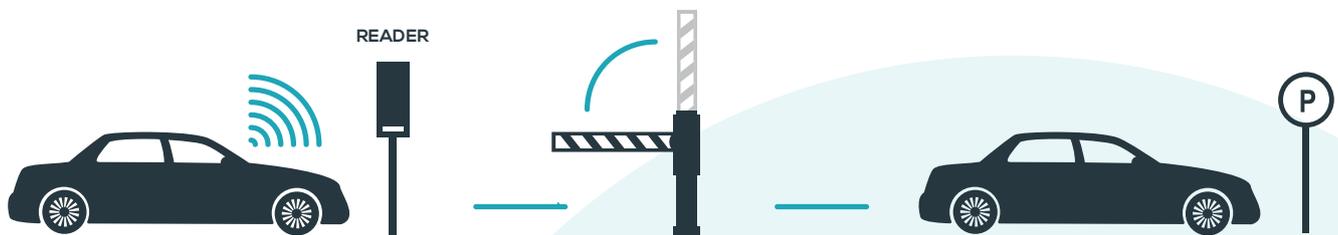
# Reading Technologies

## Long Range UHF Readers

### Overview

Our comprehensive long range readers series is suitable for a variety of different applications. These readers offer passive reading technology which ensures maximum performance. As the UHF cards do not require a battery cards are much more cost effective than active tags.

The S-UHF-R2 reader is ideal for hands free and DDA applications and offers a read range of up to 2 meters. The S-UHF-R4 and S-UHF-R10 reader are designed specifically for outdoor applications and both readers comply to IP66. With up to 4m and 10m read range respectively these readers are ideally suited to car parking applications.



#### Technical Tips

A range of reading solutions are available including:

- UHF-ISO Cards
- UHF-ISO and Mifare Dual Technology Cards
- UHF Car windscreen stickers



#### Typical Applications

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



#### Part Numbers:

##### S-UHF-R2

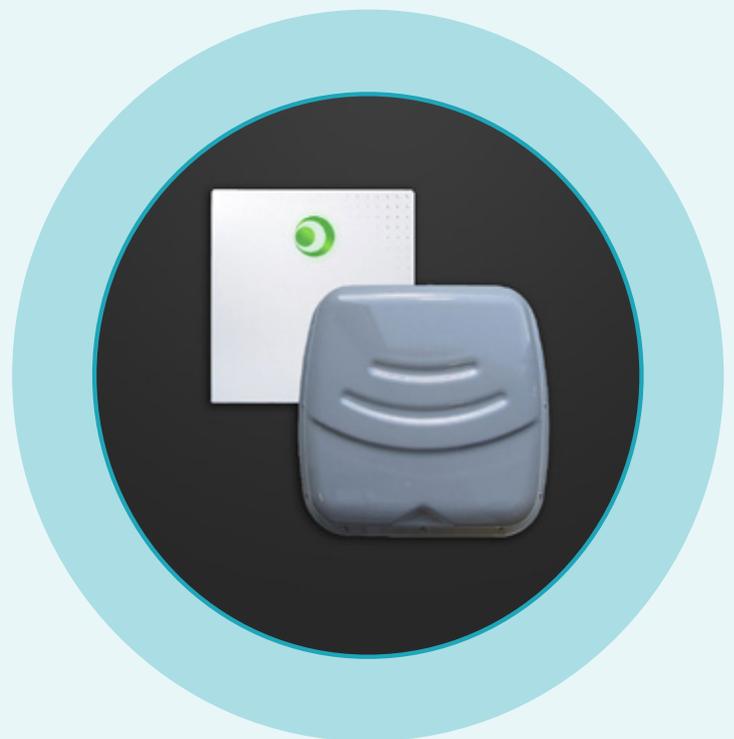
Sensor UHF up to 2m read range

##### S-UHF-R4

Sensor UHF mid range reader up to 4m

##### S-UHF-R10

Sensor long range reader up to 10m



# Reading Technologies

## Sensor Biometric Solutions

### Overview

Sensor offers a range of biometric solutions to compliment and complete the VantagePoint product range. Solutions include arrange of fingerprint and iris recognition products.



### Key Features

- Not required to carry any cards or fobs for entry
- Eliminating the possibility of lost credentials
- Possible cost saving  
(no card population to maintain)
- High security  
(can be used as a further level of authentication)
- Integrated enrolment
- External options available

### Typical Applications

- High Security Buildings
- Server rooms
- Where it is beneficial not to carry a card
- Airports

# Case Studies

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## Engineering Construction Site - Turkey

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This construction site had strict requirements for reporting as well as a stringent list of health and safety factors that needed to be considered and covered. VantagePoint was able to offer the solution to meet these demands.

Due to the high number of workers on this site it was key to ensure that the system was able to cope with large card holder numbers and VantagePoint could offer 100,000 users as standard. It was critical to provide a comprehensive reporting package; this was also included as standard within VantagePoint.



## Regent International School - Lebanon

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A comprehensive system comprising of over 40 readers was designed and installed at this high-profile school, deployed to meet a complex range of requirements including a cashless vending system to manage meals at the in-house canteen. The batch enrolment feature was particularly useful for this school as large numbers of students were enrolled in a short time frame.



## Iraq Solar Power Plant - Iraq

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With a harsh environment in rural Iraq, this site presented a range of challenges that were all covered by VantagePoint. With over 35 readers integrated with a video security management platform, the site now operates one easy, simple user-friendly integrated system to meet all requirements.

The graphical map was particularly useful for the customer in showing real-time status of alarm input status, which allowed for the guard to identify the location of the alarm immediately.



# Product List

## Software



### VP - EXP

#### VantagePoint Software Express

VantagePoint Express / Access Control Software / Up to 32 readers / 100,000 cardholders / Alarm Management / Graphical maps / Biometric Integration / T/A reporting / Running on MS SQL / Supplied on a USB Memory stick



### VP - ENT

#### VantagePoint Software Enterprise

VantagePoint Enterprise / Access Control Software / 400 readers / 100,000 cardholders / Alarm Management / Graphical maps / Biometric Integration / T/A reporting / Running on MS SQL / Supplied on a USB Memory stick

### VP - ENT-WS

VantagePoint Enterprise access control software workstation license.

## Controllers



### VC-2-B5

#### VantagePoint Controller

VantagePoint Smart IP Controller / 2 readers (2 doors) / 12 inputs / 8 outputs / 100k cardholder / 50k event buffer with 5 amp power supply in Metal Box

### VC-2

VantagePoint Smart IP Controller / 2 readers (2 doors) / PCB only



### VC-4-B5

VantagePoint Smart IP Controller / 4 readers (4 doors) / 12 inputs / 8 outputs / 100k cardholder / 50k event buffer with 5 amp power supply in Metal Box

### VC-4

VantagePoint Smart IP Controller / 4 readers (4 doors) / PCB only

## Readers



### 1. SF-MINI

#### Sensor Prox SF format

SensorProx SF Format Mini Smart Card Reader Technology. Tri colour back lit reader.

### 2. SF-SG

SensorProx SF Format Single Gang Smart Card Reader Technology. Tri colour back lit reader.

### 3. SF-KPV

SensorProx SF Format Keypad Smart Card Reader Technology, Tri colour back lit keypad. Touch sensitive.



### SF-ISO

SensorProx SF Format ISO Cards / 1K Smart Card technology / Minimum order quantity 50 (multiples of 50)

### SF-KEY-Y SF-KEY-G

SensorProx SF Format Grey or Yellow Keyfob. / 1K Smart Card technology / Minimum order quantity 50 (multiples of 50)

### SF-Dsk-RD

SensorProx SF Format Desktop reader connected to PC via USB

# Product List

## Door Hardware



- 1. **SPECIAL** Integrated lock & reader. Double Cylinder
- 2. **SPECIAL** Integrated lock & reader. Handle Set



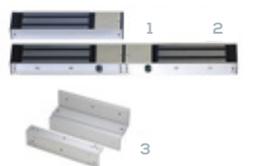
- 1. **EB-1** Surface mount plastic exit button
- 2. **EB-2** Surface mount, vandal resistant, stainless steel exit button
- 3. **EB-3** Surface mount, narrow style, plastic exit button
- 4. **EB-4** Surface mount, narrow style, vandal resistant, stainless steel exit button
- 5. **EB-5** Surface mount,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

## 5 Year Warranty

With a 5 year warranty offered on our Vantage 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 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

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### 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](mailto:sales@sensoraccess.co.uk)

**Web.** [www.sensoraccess.co.uk](http://www.sensoraccess.co.uk)

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