

ACCESS CONTROL

Total control over your door security. Advanced access control systems with complete flexibility to allow for any number of doors, scalability now and in the future plus simple or sophisticated access rights management.

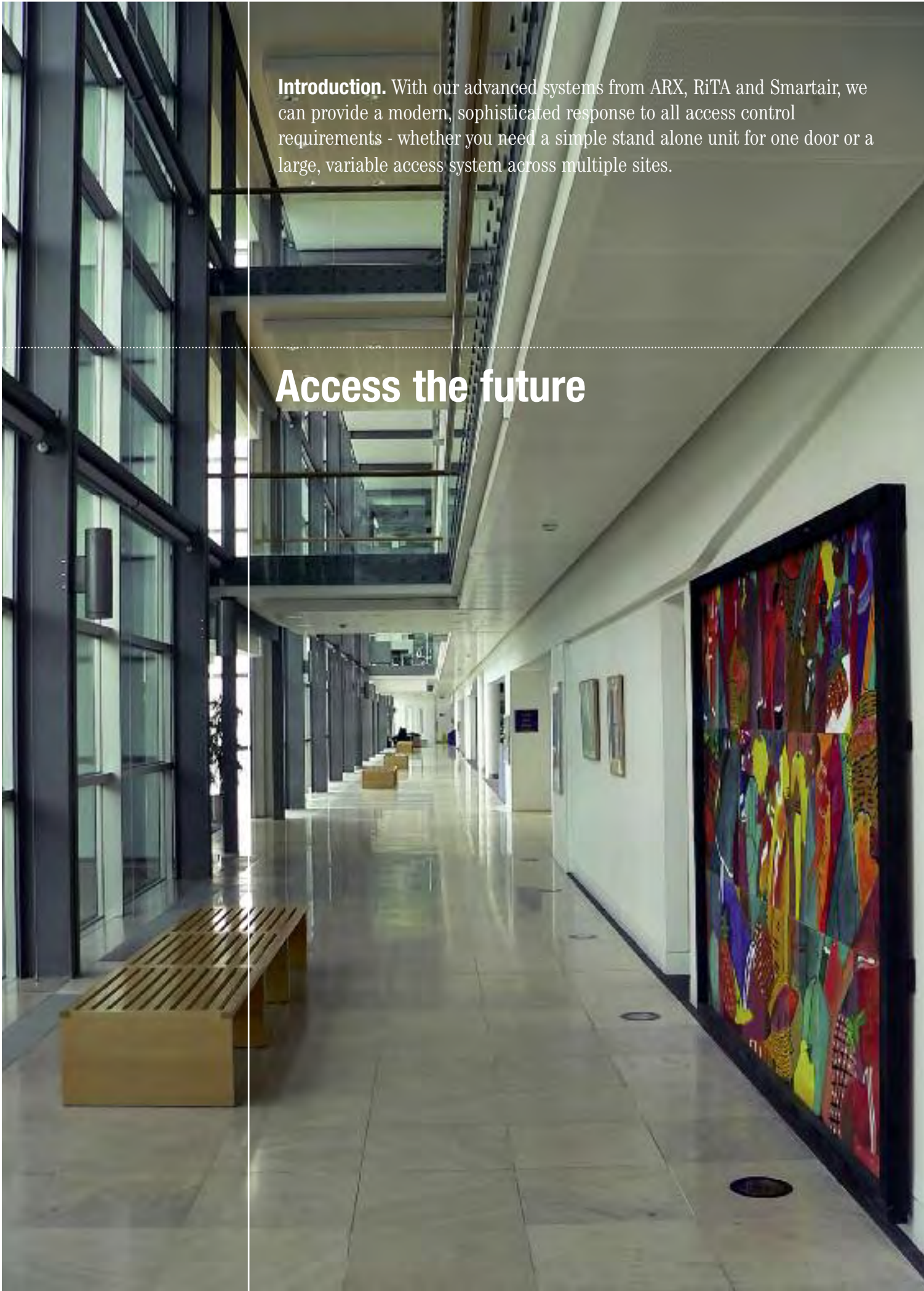


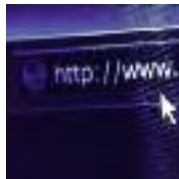
Abloy | UK



Introduction. With our advanced systems from ARX, RiTA and Smartair, we can provide a modern, sophisticated response to all access control requirements - whether you need a simple stand alone unit for one door or a large, variable access system across multiple sites.

Access the future





With three principal systems, each providing great flexibility and scalability, our access control systems can provide a simple solution that grows with the requirements of the customer - or a major door security installation at the outset.

ARX

ARX is a TCP/IP enabled system, managed within your existing computer network, ideally suited to large organisations at multiple sites.

RiTA

RiTA has traditionally provided the backbone of access control solutions with many large, multiple site blue chip organisations. RiTA has provided access control solutions from a small number of doors to several hundreds of doors and thousands of users.

Smartair

Smartair incorporates the latest in RFID technology, enabling contact-free door entry at the presentation of a smart card. It also offers great flexibility for smaller organisations, with each door fitted with a stand alone unit, but linked and computer managed either by online card updating or via a host PC.

We also provide a range of high quality digital keypad locks and proximity readers.

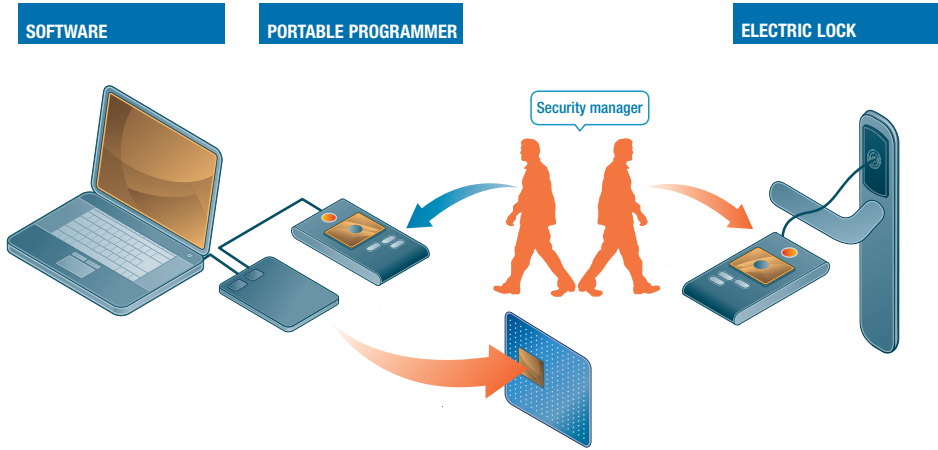


Smart thinking. Smartair is the latest in RFID access control technology from Abloy | UK that allows the user to simply present their Smartair card in proximity to the lock to gain access. Not only is it simple and convenient for traffic flow through the building, but contactless entry means no wear and long card life. For a system that is remarkably simple to plan and install - each door is a standalone unit with no wiring - Smartair represents a user friendly, computer managed access control solution, controlling internal and external doors with variable access levels for multiple users across time and area zones.



There are two options for control and management of the Smartair system

1 Standard offline system



Configure system

Using TS1000 software on any PC to set access rights for each door

Transfer to programmer

Connect portable programmer to PC via encoder and download access information

SMARTAIR CARD

Programme card

Programme each card with unique user ID and access rights

Updates electric lock

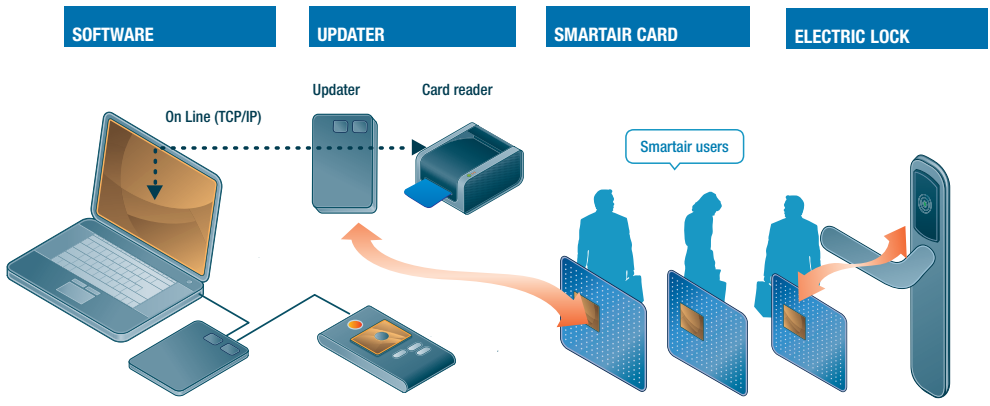
Connect portable programmer to each lock to transfer access information and to download audit trail data

Programmer options

- Initialise
- Initial programming of doors
- Update
- Upload modifications in the locking plan to each door
- Audit trail
- Download the audit trail stored in each door up to 1000 events
- Open
- Emergency opening of any door

2 Update on card

With the simple addition of an updater unit, Smartair can, via TCP/IP, programme all smart cards to automatically update the system when used by the card holders to gain access



Configure system

Using TS1000 software on PC to set access rights for each door

Updater notified

Information automatically sent to updater via TCP/IP

Cards updated

Card is updated with system and user information automatically via updater

Locks updated

System information is updated in each lock whilst reading the user's Smartair card to gain access
Audit trail data is also automatically transferred to the card

Updater specifications

- Embedded PC
- TCP/IP connection used to upload and download user information and system information automatically on study of a card
- Revalidation
- New feature to force the user to go to the updater
- Two specification options
- The updater can be configured in one of two ways, depending upon the clients requirements

Electronic privacy models

When locked from inside with thumbturn, the electronic privacy is activated. Only the

cards authorised will open and the red and green LEDs will be on at the same time, meaning that somebody is inside.

Models without electronic privacy

Model type, external side

L5S

Thumbturn



L1S

Passage



Long plate

L8V

Thumbturn and cylinder



L2V

Cylinder



Short plate
Special order

L3V

Double cylinder



Visible cylinder

Available handles

Sena
Stock



Vector
Stock



Xara
Special order



Zafira
Special order



Finishes



Stainless



PVD matt brass
Special order



PVD polished brass
Special order

Climate resistance

Standard conditions

For internal doors. Iron clutch body. No sealing joints. Inoxy finish.

Extreme conditions

For external doors exposed to extreme conditions. Stainless clutch body. Sealing joints. SC finish.

Technical data

Mechanical technical features

Covers

External cover size: 40,5 x 281 x 10mm

Internal cover size: 40,5 x 281 x 21mm

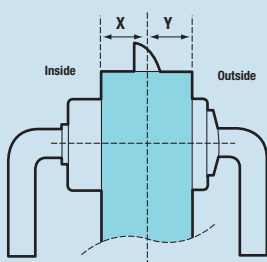
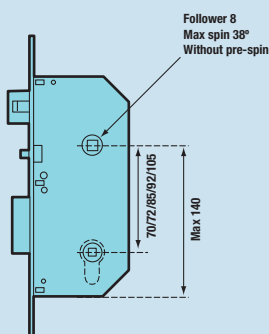
Materials: Stainless steel

Mortice lock

Compatible with European standard mortice locks with distances between axes 72 mm to 85mm. The latch follower must be 8 or 9 mm with a max spin of 38° and without extra springing. Smartair is compatible with centres from 70mm to 105mm.

Door width (telescopic)

- For 38mm to 110 mm door width.
- The follower lock will have different lengths depending on the door width. Smartair is available with centres from 70mm - 105mm.



Electronic technical features

Reading module

Identification technology

- Smartair 13,56MHz read/write contactless chip
- ISO 14443 A Phillips mifare Std IK, 4K

Reading distance

10mm with standard credentials

The connection jack to the portable programmer is in the reading module

Control unit

- Non-volatile memory
- Up to 1,500 users and 1,000 events (register of openings and opening attempts)
- Real time clock and calendar. 14 time zones with five time periods each
- Red and green warning LED . Various notices: low battery level, access denied, etc.

Operating modes

- Free way: Lock always open (free)
- First user: Lock open after the first access of an authorized user
- Standard: Default operating mode. Credential must be produced
- Double user: Two authorized users must produce their credentials

Battery module

Type of battery: Three 1.5 V alkaline batteries, LR03 AAA-type
Estimated duration: 30,000 operations or 3-4 years
Standby consumption: 20mA

Functioning conditions

Humidity

Up to 85% without condensation

Temperature

External side -20°F / 70°F

Internal side 0°F / 50°F

Fire

Fire test certificate 30', 60' and 90' to EN1634:2000

Packing

- Supplied in an individual box with a set of handles, spindle kit, construction card, screws, batteries and template.
- Mortice lock and cylinder are not included.

Construction mode

In order to facilitate the installation, locks are supplied in "construction mode" with "construction cards". All locks will be opened by any card at any time until the system is programmed.

Cylinder compatibility

Smartair locks are compatible with most Euro profile cylinders

Door licences

Licences are available in blocks of pre-set quantities. The door licence package includes the software locking plan - with a quantity of door licences and an authorisation key.

A man with short brown hair, wearing a dark blue suit jacket over a dark shirt with a red and blue striped collar, is leaning on a grey metal railing. He is looking off to the side with a thoughtful expression, his right hand resting on his chin. The background is a blurred industrial or office setting with metal beams and a window.

Making life that bit easier. Our access control solutions are designed for simplicity - simple to install, simple to use, simple to control and manage door usage. In fact, the only difficulty is to gain entry without access rights.

Sophisticated access control for today's business environments. There are no limits to the size of building or organisation that we can cater for. Whether it is a small, medium or large application, we have a solution from one door upwards with future expansion capabilities available on all our systems.



▼
TCP/IP ENABLED
OPEN PROTOCOL
SYSTEMS

▼
SCALABLE TO GROW
WITH YOUR
ORGANISATION

▼
A SOLUTION FOR
ANY NUMBER OF
DOORS

▼
TEAM OF TECHNICAL
EXPERTS AND
APPROVED
INSTALLERS TO
ASSIST, FROM
SPECIFICATION TO
INSTALLATION AND
SERVICING

ARX

- Import/export feature
- SNMP
- Unlimited cards
- Minimum of 1,000 schedules
- Additional door licences available
- 5-client server licence as standard
- 1, 10, 15, 20 clients (additional cost applies)



General

Future-proof, easy to install and start up, ARX combines the flexibility of access control with the convenience of being able to manage security over a standard IT network.

Please see page 16 for compatible readers for use with ARX.

Features

PKI Protocol

Public Key Infrastructure uses digital certificates like secure banking on the Internet. These ensure authenticated identification of 9016 controllers over the network and Internet with the client/server software. This is a new concept in access control and the unique process in which this has been implemented has been patented.

SSL Protocols

Secure Socket Layer Protocols ensure strong, patented 128 bit encryption of data over the local area network, wide area network and the Internet.

Java

The application is written in Java which enables it to be independent of the operating system and therefore future-proof.

XML

Database integration using extensible markup language. XML can easily represent both tabular data (such as relational data from a database or spreadsheet) and semi-structured data (such as a web page or business document).

SQL Database

Incorporates an industry standard robust, secure and high performance database.

TCP/IP Controller

Each controller can have a maximum of 16 doors with no theoretical limit to the number of controllers. Suitable for a maximum of 16 doors, the 9016 controller can store a minimum of 100,000* cards with individual pin numbers, categories, areas, calendars and more than 1,000 schedules. A minimum of 30,000* events can be stored offline and will be uploaded once communication is resumed. If the network is down, the system will continue to operate as normal and remain secure. Using true TCP for data communication ensures connection orientated exchange of data with guaranteed delivery. With an on-board Linux computer, upgrading the program or adding new features is simple.

Door Access Controller

DACs look after the door environment and control electric locks, strikes, egress, door monitoring, extended door open operation for disabled access, separate outputs for electronic blocking device local buzzer, and additional inputs for break glass monitoring. Each DAC can provide read in and out functionality.



Software installation and upgrades over the network or Internet

User and password-controlled installation or upgrade of software over the local network and Internet.

SNMP

Simple Network Management Protocol is an application layer protocol that allows the exchange of management information between network devices. Network administrators can monitor the performance and health of 9016 TCP/IP controllers.

Readers, Cards and Credentials

Different reader types and technologies can coexist within the same controller. Typically these can be magstripe, proximity or use the industry standard Wiegand 26 bit Interface. Smart card readers with 32 bit numbers and biometrics from HID or Indala are also effortlessly integrated.

Plug and Play Hardware

Controllers and readers are easily installed using the DHCP and DNS IT infrastructure.

*Depending on card type

How it works

This is an illustration of a typical ARX network, based on providing access control for a multi-facility organisation, incorporating a headquarters building and one of its branches

Server application

RS485

DHCP and DNS server
For automatic configuration of 9016 controllers

9016 controller

Galaxy panel and keypad
Connected to virtual RIO

20mA current loop

Doors

Up to 16 doors per 9016 controller with read in and out per DAC

Ethernet

PC stations

Photo ID with web camera and card printer
Conference room booking
Administration client
Visitor station

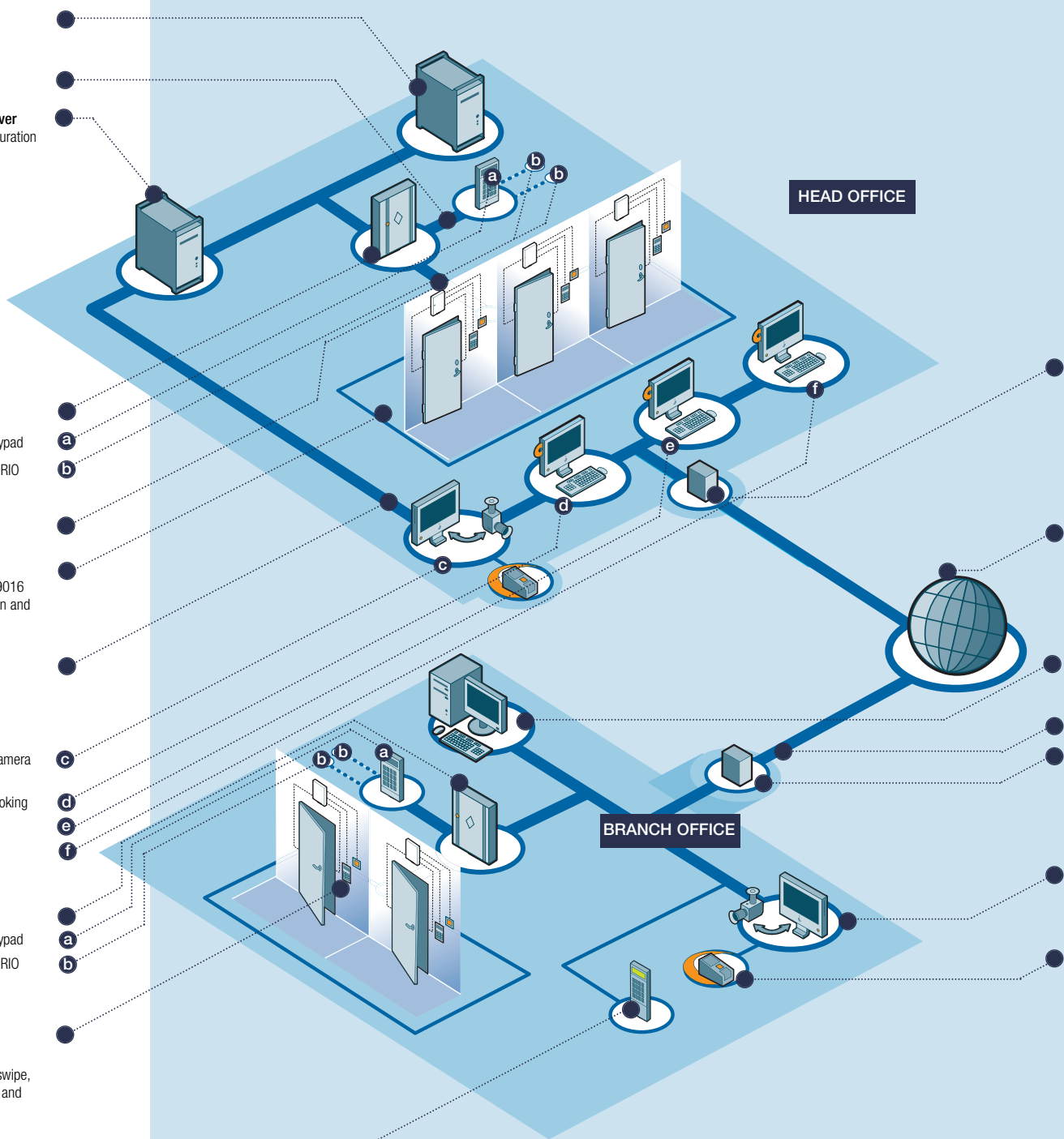
9016 controller

Galaxy panel and keypad
Connected to virtual RIO

Readers

Readers can be a combination of magswipe, proximity, smartcard and biometric

IP entryphone



Modules

Access Module

Provides unlimited cards and doors. The system uses access categories with programmable validity, access areas, schedules and calendars to control access and door operation. Online diagnostics display the status of 9016 controllers, DACs and readers. Personnel can have extended fields. View, Edit and Create permissions can be programmed for each operation within the ARX system user. File logging of all operator, card and alarm activity can be used for auditing purposes. Reports can be created and saved to search and filter events. Unwanted PIN codes can be programmed out. Alarm zones are a standard feature allowing setting and unsetting via reader keypads. The system can be configured for software-controlled airlocks.



Web Client

View, change and delete cardholders remotely over the Internet. Individual web access via 'My Pages' to change PIN codes, inhibit cards, change passwords, view bookings and messages.

Galaxy Module

A standard feature on ARX Professional allows complete integration with the Galaxy intruder alarm system using the RS485 link and the cost-effective creation of virtual RIOs to route alarms from or to both systems.

Zone Module

Allows the access control system to be configured to create different zones showing the number of people in a zone numerically or in a named list. This facility can be used for mustering people when an emergency occurs. Using anti-passback denies access to a zone if cards are badged twice in succession. (Standard for ARX professional only)

Visitor Module

Provides receptionist console software, guest console software and a label printer server. The history of visitors and escorts can be recorded and accessed for activity reports.

Lift Control

There are two methods of lift control, select the floor then badge the card and the system will check if it is an authorised floor, or badge a card and the authorised lift buttons are enabled.

Import and export modules

The import/ export module has two main functions. Firstly it allows operators to bulk import user/card/ access category information to the ARX database using IT industry standard XML files. The other function of this module is to allow ARX to integrate with other applications such as Time and Attendance systems. This functions by exchanging data between ARX and the third party application, again using XML (Extensive Markup Language) files.

Noctu - Alarm Management

Noctu is a graphical alarm management system offering an exceptionally clear and user friendly interface for graphical surveillance of various integrated solutions. Monitoring produces real-time status reports on clear floor plan graphics and includes action text and activity summaries. Full documentation system logs and schematics can be printed directly from Noctu. Alarm notification can be transmitted via text message, email, fax or network printer. Alarms can also be deactivated via text message from system administrators.

- User-friendly graphical interface
- Camera surveillance capability
- Up to 300 floor plans
- Up to 17,000 detectors
- Up to 200 output signals (digital and analogue)
- Unlimited user groups
- Flexible alarm scheduling

Router

Internet

Data transmitted between all network devices use PKI and SSL to ensure authentication and encryption

Administration client

Ethernet

Router

PC stations

Card printer

RiTA



General

Suitable for any application, the RiTA has the capability to be networked to enable more than one user to control the system from more than one PC. In addition remote sites can be added to the system all controlled by the simple to use software. Individual requirements can be catered for when specifying the system with the flexibility to expand functions if needs develop in the future. Please see page 16 for compatible readers for use with the RiTA system.

NB. Please confirm exact server requirements with our technical support department on 01923 255066.

RiTA software

RiTA software is compatible with any Microsoft Windows PC, it uses simple menus and provides full control and reporting of the building security

There are 3 versions to suit different application types, with the option to upgrade if required

RiTA 16 door

Cost-effective solution for small systems

RiTA Standard

Provides full functionality on a single workstation

RiTA Network

For multiple workstations, allowing a number of users to simultaneously control different system functions

Software modules can be added at any time either at time of installation or a later date to adapt to changing needs

Modules

RiTA Photo ID module

For identification purposes cards can be created with a photo of the user

RiTA Alarm module

Allows SOLICARD 6000 to be linked to the building alarm system, providing real-time monitoring and system control functions

RiTA Zone module

Buildings can be divided into separate secure zones, with strict controls and monitoring of personnel moving from one zone to another. Includes anti-passback option and muster report

RiTA Visitor module

Visitors can be logged and supplied with restricted or temporary access cards

RiTA Debit module

Allows access cards to be used as a form of payment for use of a facility, on a credit or debit basis. Full pricing and monitoring of purchases is available

RiTA Maintenance module

User data can be exported or imported between the SOLICARD system and external databases, providing the option to integrate with company administrative systems

RiTA Photo-log/ presentation module

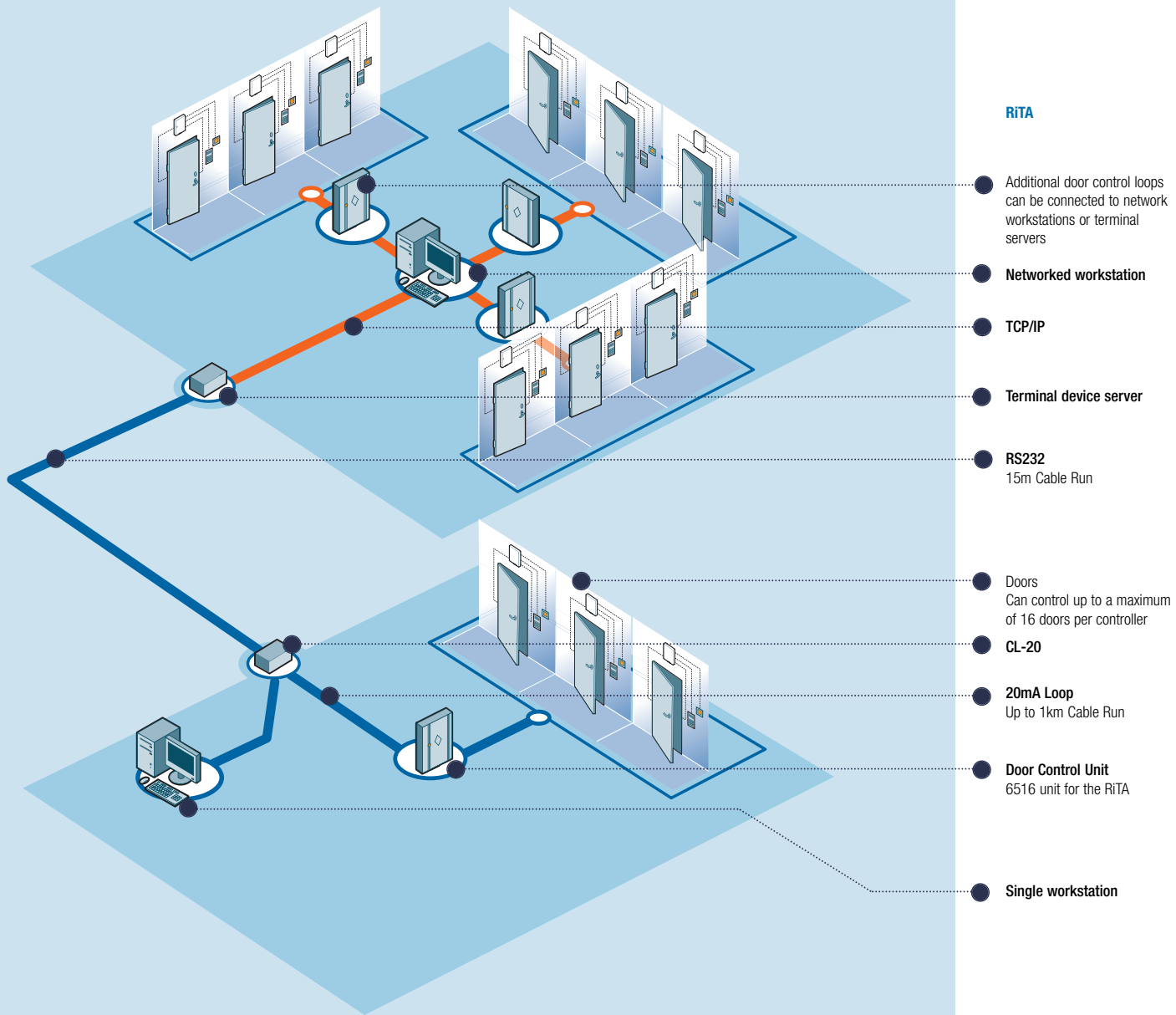
Displays a photo of the user on screen when presented at a specified door, providing enhanced security checks

RiTA Door status module

Provides constant surveillance of selected doors within the system

RiTA TCP/IP module

Allows direct configuration between RiTA and IP device servers



RiTA

- Additional door control loops can be connected to network workstations or terminal servers
- **Networked workstation**
- **TCP/IP**
- **Terminal device server**
- **RS232**
15m Cable Run
- **Doors**
Can control up to a maximum of 16 doors per controller
- **CL-20**
- **20mA Loop**
Up to 1km Cable Run
- **Door Control Unit**
6516 unit for the RiTA
- **Single workstation**

A range of readers suitable for use with the RiTA, ARX Standard and ARX Professional access control systems.

Additional reader interface may be required depending on the reader chosen.

SOLICARD Magstripe

6354ML

Swipe card reader. Requires 12-24V AC or DC power supply

6355MLB

As 6354ML but with keypad, buzzer and tamper switch, backlit keypad as optional extra

6354MI

Flush-mounted card reader. Stainless steel finish. Requires 12-24V AC or DC power supply

6356MI

As 6354MI but with keypad



iButton Touch Tag

6375ST

Touch tag reader with keypad, buzzer, anti-tamper switch and optional backlit keypad. Requires 12-24V AC or DC power supply



HID Proximity

ProxPoint Plus

Short range reader with LED and buzzer. Requires 5-16V DC power supply. Typical read range 40-60mm (card), 25-40mm (tag)

MiniProx

As ProxPoint Plus with typical read range 100-175mm (card), 25-75mm (tag)

ProxPro

Medium range reader with LED and buzzer. Requires 10-28.5V DC power supply. Typical read range 100-175mm (card), 25-75mm (tag)



HID iCLASS

R10

Slim line contactless smart card reader, requires 10-16V DC power supply. For mullion mounting or where space is limited. 48.3 x 102.6 x 20.3mm

R30

As R10 but square, designed to cover standard back boxes. 83.8 x 83.8 x 19.1mm

R40

As R10 but larger in design to cover single gang switch boxes. 83.8 x 121.9 x 21.6mm



RW300

Contactless smartcard reader/writer. Allows secure writing of data to a card. 83.8 x 83.8 x 19.1mm

RW400

As RW300 but 83.8 x 121.9 x 21.6mm



HID Biometrics

RWKL 550

Read/write contactless smart card reader with keypad. LCD display provides feedback and instructions. Backlit keypad with audio, 64-bit encrypted communications and anti-tamper alarm. For use with BIO500 verification module. Not suitable for external use

RWKL575

As RWKL550 but with integrated fingerprint reader.





Flexibility. Advanced, multi-functional systems to accommodate the needs of businesses today

190CL**Digital keypad**

2 codes stored at one time

210CL**Digital keypad**

7 codes stored at one time

**210DA****Digital keypad**

As 210CL, with duress alarm function

**211CL****Digital keypad**

As 210CL, but flush mounted stainless steel body for external fitting

**Solid-PCR-40**

Proximity reader with keypad

**HID Entryprox reader**

Proximity reader with token plus pin

**Features**

- Compact and easy to install
- All programming is carried out from the keypad
- Non-volatile memory ensures against data loss
- 4 or 6 digit code
- Up to 1,000,000 codes
- 2 codes may be stored at one time
- Automatic anti-manipulation function
- Anti-tailgating function when used in conjunction with an electric strike
- Suitable for internal or external use provided the units are protected from extreme weather conditions
- IP-54 rated

Technical

- Operates at 12-24V AC or DC, 10mA to 110mA
- 1A to 24V output

Finish

- 190CL, 210CL, 210DA – black or white
- 211CL – stainless steel

Features

- Compact and easy to install
- Suitable for internal use only
- Can be programmed from the keypad
- Tokens can easily be blocked or deleted
- Up to 500 tokens may be used
- Option of using 8 PIN codes
- Anti-tailgating function when used in conjunction with a monitored electric strike
- Built-in clock and calendar, up to 8 day types and 9 access schedules
- Backlit keypad – backlighting can be turned off if not required
- Can be used as a system reader with SOLICARD 4000, 6000, ARX Standard and Professional access control systems

Technical

- Operates at 12-24V AC or DC, 100mA to 1.1A
- IP-54 rated housing

Finish

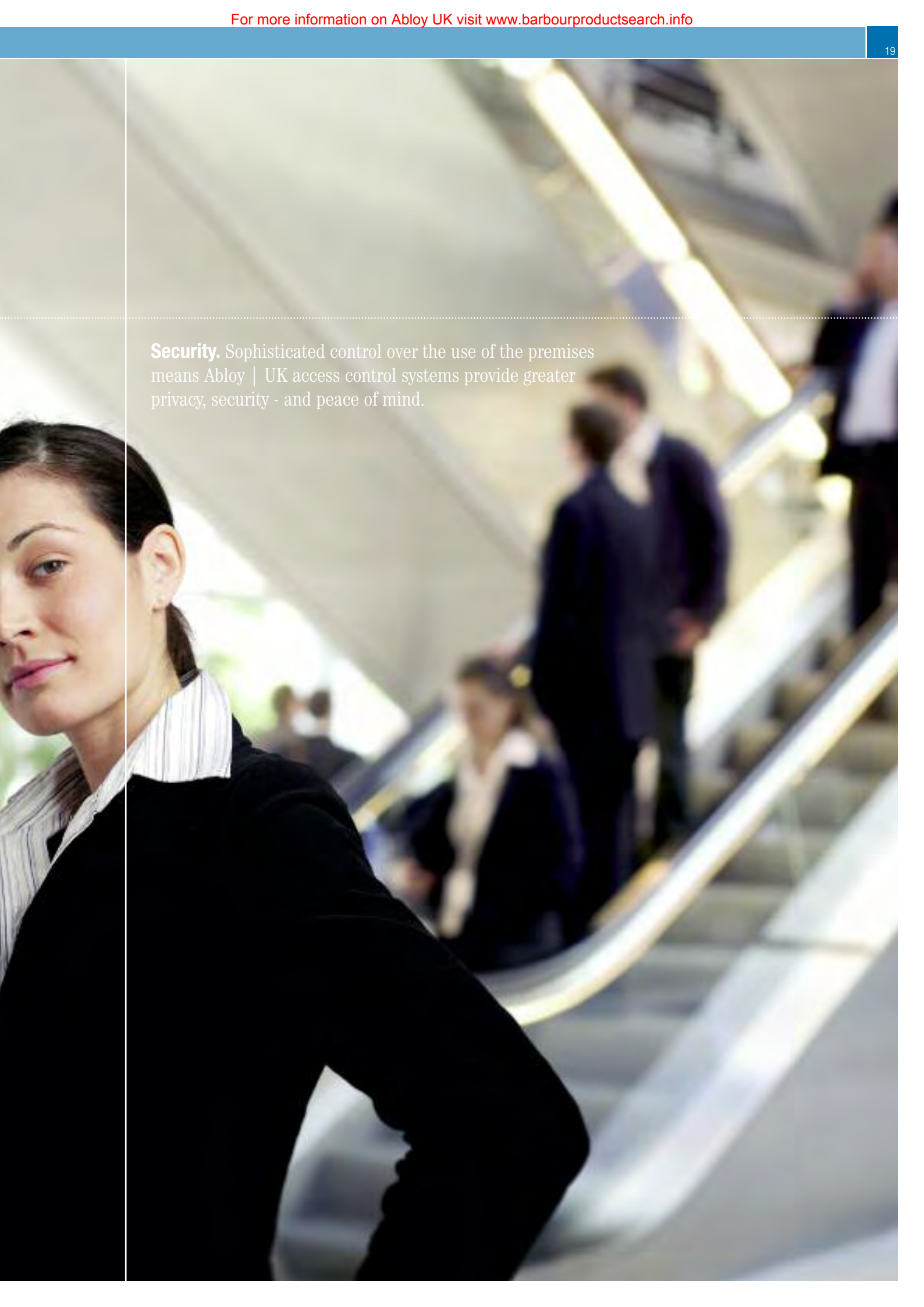
- White or black

Features

- Compact and easy to install
- Suitable for small installations or remote locations
- Up to 2,000 cards or tokens may be used
- Detachable antenna can be mounted up to 3 meters away

Technical

- Operates at 12V DC, 150mA








Security. Sophisticated control over the use of the premises means Abloy | UK access control systems provide greater privacy, security - and peace of mind.

Abloy | UK

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LET ABLOY UK HELP	1: ONLINE	2: ON THE PHONE	3: ON SITE	4: PLANNING	5: IMPLEMENTATION
<p>Abloy UK are always on hand with courteous and expert help, right from supply and support of our products to planning and implementation of major projects.</p>	 www.abloy.co.uk Our state of the art, customer focused website. Just click for product information, technical data, downloads and more	 01923 255066 Courteous and knowledgeable telephone assistance, whether for sales, consultancy or technical matters	 01923 255066 Friendly on site consultancy for larger projects	 01923 255066 Experienced assessment and planning of your project	 01923 255066 Implementation of your installation through our national network of Centres, selected by us for specific product and technical disciplines

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E. & O. E. For terms and conditions of sale, please refer to the current price list.

Abloy | UK markets high quality products and accessories for security applications. Our customer base provides solutions to a broad spectrum of public and private organisations throughout the UK and Ireland.



ISO9001:2000
 Certificate number FS504352