



E N G L I S H

THE NEW WAY  
TO MANAGE  
YOUR DOOR

**ISEO zero1**  
ELECTRONIC  
SOLUTIONS





## THE NEW WAY TO MANAGE YOUR DOOR

Argo is the ideal solution for managing access rights in residential or “light commercial” contexts (offices, small businesses, professional studios and shops) or B&B facilities.

All you need is your smartphone and the Argo app to open and manage access rights to doors equipped with ISEO Smart locks. Smartphones, cards, tags and PIN codes can be added or deleted as opening credentials, assigning individual validity and time schedules.

Access management has never been so user-friendly: convenience and security have been combined in a completely new way to shape the future of access control.

Argo is the result of ISEO Group's intensive R&D and commitment to innovation.



# ISEO ARGO App



Residential



Light commercial



## ISEO ARGO

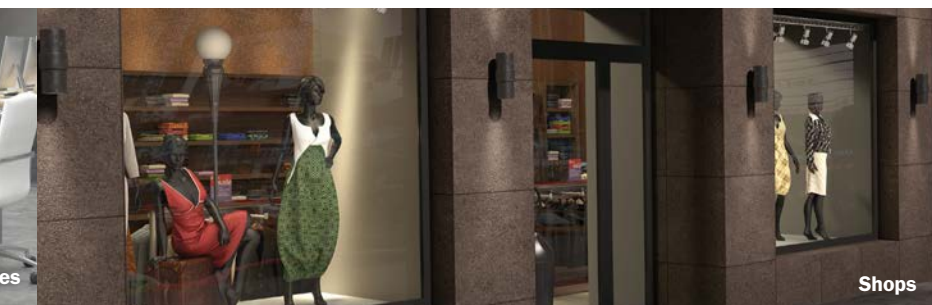
### MAIN FEATURES

- ❑ EASY UPGRADE to an electronic access control system: the smart devices are interchangeable with existing mechanical locks.
- ❑ VARIOUS SMART LOCKS, for every type of door.
- ❑ EASY MANAGEMENT of the list of users with access rights.
- ❑ USE OF A SMARTPHONE to open doors.
- ❑ USE OF RFID CARDS OR TAGS to open the doors.
- ❑ QUICK CHANGE OF ACCESS RIGHTS if credentials are lost or stolen.
- ❑ QUICK REPORTING OF EVENTS to check who opened the door, and when the door was opened.
- ❑ FREE ARGO APP and lock software (firmware) upgrades.
- ❑ NO ADDITIONAL SOFTWARE to install.
- ❑ NO INTERNET CONNECTION or cloud service registration needed for the Argo app.
- ❑ LOCK SOFTWARE (firmware) can be upgraded on site, without any need to disassemble the lock.
- ❑ POSSIBILITY OF REMOTE KEY DELIVERY with the free optional apps Argo Host and Argo Guest, and the remote key delivery Argo cloud service.

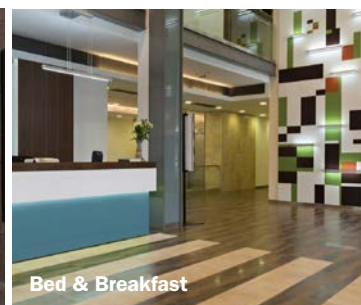
By simply installing the Argo app on an iOS or Android smartphone, you can manage, monitor and open all the ISEO Smart locks without any need for additional software or an internet connection. All this thanks to Bluetooth Smart technology, which allows your smartphone to communicate with ISEO Smart locks. With Argo, you can organise access rights for up to 300 users per door, and view the last 1000 events (access, unauthorised access attempts, etc.).

In addition to smartphones, the doors can also be opened using ISEO cards and existing RFID cards (contactless credit cards, public transport tickets, other access control cards, etc.).

ARGO means simplicity, access control and peace of mind.

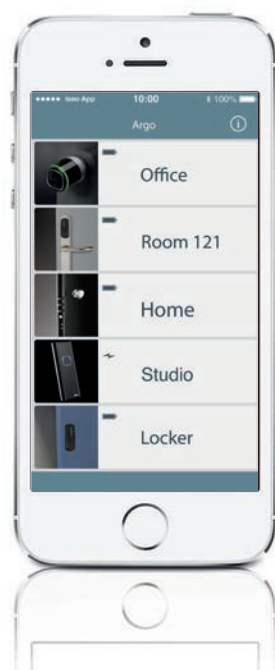


Shops



Bed & Breakfast

ISEO **ARGO**



Libra SMART



Aries SMART



# ISEO ARGO

## Main features



### OPEN WITH A SMARTPHONE

Thanks to Bluetooth Smart technology, you can open the door with your smartphone. The free Argo app enables any Bluetooth Smart Ready phone (iOS, Android) to unlock doors fitted with ISEO Smart locks (Libra Smart, Aries Smart, x1R Smart, Stylos Smart, Smart Locker). Bluetooth Smart technology allows doors to be opened from a distance of up to 10 metres, so you can use your smartphone as a remote control to unlock your door.



### OPEN WITH PIN CODES

Stylos Smart Display and x1R Smart locks are equipped with a keypad, so you can also open them with a PIN code (4-14 figures).



### OPEN WITH CARDS OR TAGS

ISEO cards or any existing MIFARE cards can be used as door keys. Just present the credential a few centimetres from the scanner, and the door will unlock.





## MANAGE THE USER LIST

The administrator can intuitively manage access rights for users with just the Argo app, without any need for additional software or an Internet connection. Up to 300 users can be added or deleted, and their rights conditions modified. The list of users can also be transferred from one door to another.



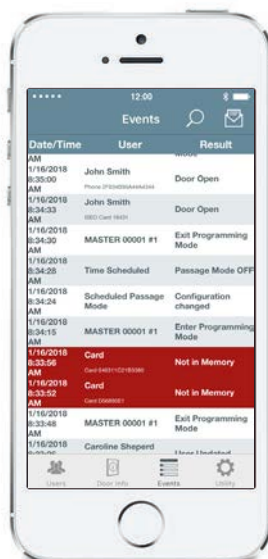
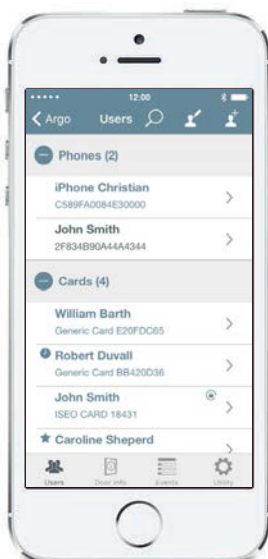
## VIEW THE EVENTS LOG

Administrators can view the log of the last 1000 events detected on a door, and send the report via e-mail. Denied access attempts are highlighted in red.



## FREE SOFTWARE UPGRADES

Free software updates on the access control devices ensure you get the best results from your door. You'll receive a notification when an update is available, and the new software will be installed on the device directly from your smartphone. This means you can constantly take full advantage of all the new features, protecting your investment in ISEO electronic locks.

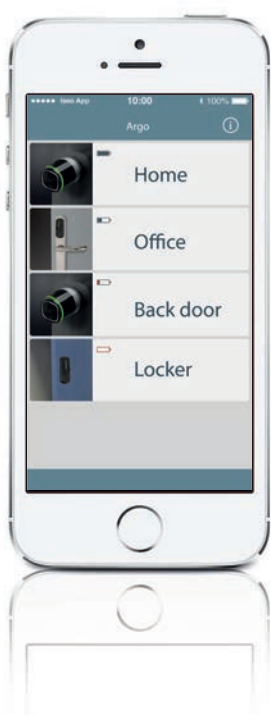


# ISEO ARGO



## BATTERY STATUS

The battery level icon is always displayed on the Argo app button corresponding to the specific lock. The battery status is shown when you open the door with the card too, with specific light signals on the Smart lock. There are 4 battery charge levels, so you can see in advance when the battery needs replacing. Battery replacement doesn't delete the user list or the events log.



**Full**



**Low**

(about 1000 openings still remaining)



**Very low**

(about 100 openings still remaining)



**Empty**



### SMARTPHONES COMPATIBLE WITH ARGO

The Argo app communicates with the lock via Bluetooth Smart (also called Bluetooth 4.0 or Bluetooth Low Energy), ensuring efficient battery consumption management and secure communication. It's compatible with iOS or Android smartphones. Up to now, Argo has been tested with over 250 smartphones covering more than 40 different brands.



### SECURE COMMUNICATION

The Argo app works without the Internet as it connects to the lock directly via Bluetooth Smart, ensuring the highest security with encrypted communication. Argo guarantees data confidentiality and authentication thanks to proven cryptography techniques based on:

- ❑ Crypto AES 128
- ❑ AES session keys generated with DHEC (Diffie Hellman Elliptic Curves)
- ❑ Random Number generator complying with NIST (National Institute of Standards and Technology) specifications.

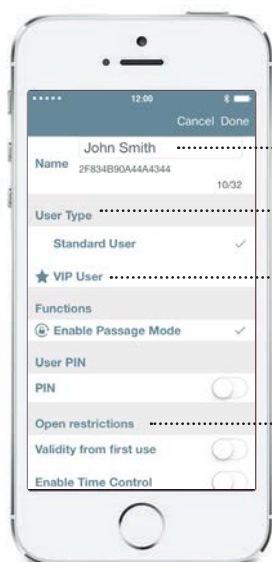


# ISEO ARGO

## Users



For each individual user, you can specify the name, user type and relative functions:



### NAME

Each user can be assigned a name so he/she can be easily identified if the credential is lost.

### USER TYPE



**Standard user:** this is the default user, for whom access can be denied if the Standard User Block function is active.



**VIP user:** this type of user can access the door even if the Standard User Block function is active.

### FUNCTIONS AND OPENING RESTRICTIONS

Apart from authorising access for users, additional functions can also be assigned along with a time check for validity and time schedules.

## FUNCTIONS AND OPENING RESTRICTIONS



**OFFICE MODE ENABLING**  
A user can put a door in Office Mode. In this state, the door will remain open for any user who wishes to pass through, without any need for authorised credentials.

**STANDARD USER BLOCK**  
This function can only be enabled by a VIP user. With this function, a VIP user can impede access for all Standard users.

**PRIVACY OVERRIDE**  
When this function is enabled, a user can access the door even if the Privacy function has been activated from the inside (with Aries Smart only).

**USER PIN**  
A single PIN code can be set and used to either open the door via the telephone or log in and programme the lock without the need for the Master Card (or for both cases). This icon indicates that the PIN has been assigned to a user, but it hasn't yet been associated with either the opening function or the login function.

**OPENING PIN**  
For greater safety, you are asked to enter the PIN after an opening command.

**LOGIN PIN**  
Your smartphone can be enabled to manage the lock. To enter programming mode, log in by entering the PIN code.

**LOGIN AND OPENING PIN**  
The user can use the same PIN code both to open the door and to log in and programme the lock without using the Master Card.

**LOGIN**  
The user can log in to programme the lock even without the PIN code.

Time  
**control**

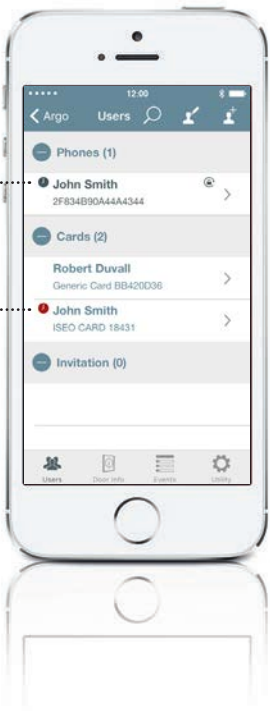


**TIME CONTROL**

This function is used to set the validity of the assigned credential (date and time of activation and expiry) for each user, as well as two time schedules that can be selected for each day of the week.

A grey clock means the user is authorised to open the door, and the Time Control function is active.

A red clock means the user credential validity has expired so the user is no longer authorised to open the door.



**VALIDITY**

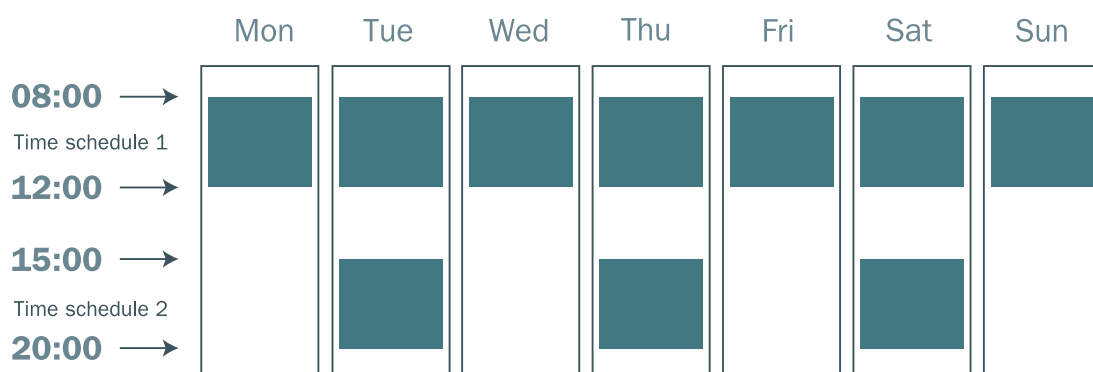
Select the date and time for credential activation and expiry.

S M T W T F S						
		valid from 8 a.m.				1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29
30	31	valid until 5 p.m.				



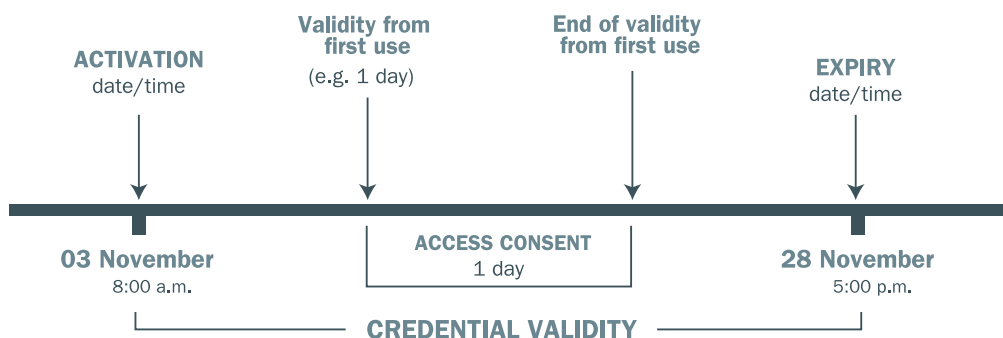
## TIME SCHEDULES

You can programme up to two time schedules (selected for each day of the week).



## VALIDITY FROM FIRST USE

It's also possible to set merely the validity from the moment of the first use of the credential (in days, hours or minutes). Validity from first use can be combined with the activation and expiry date, and with the time schedules of the credential.



# ISEO **ARGO**

## Programmed **office mode**

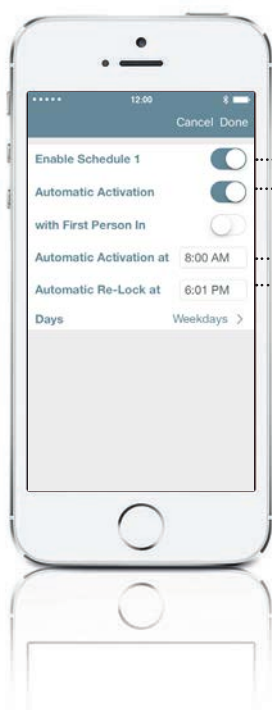
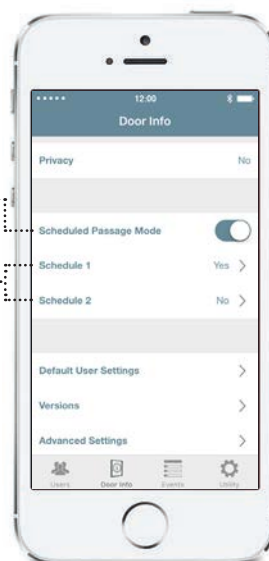


### PROGRAMMED OFFICE MODE

This function is used to set 2 different programs for automatically enabling and disabling Office Mode on the lock.

Enable Programmed Office Mode from the Door Info menu.

You can activate up to 2 programs.



Activate Program 1.

Enable automatic activation.

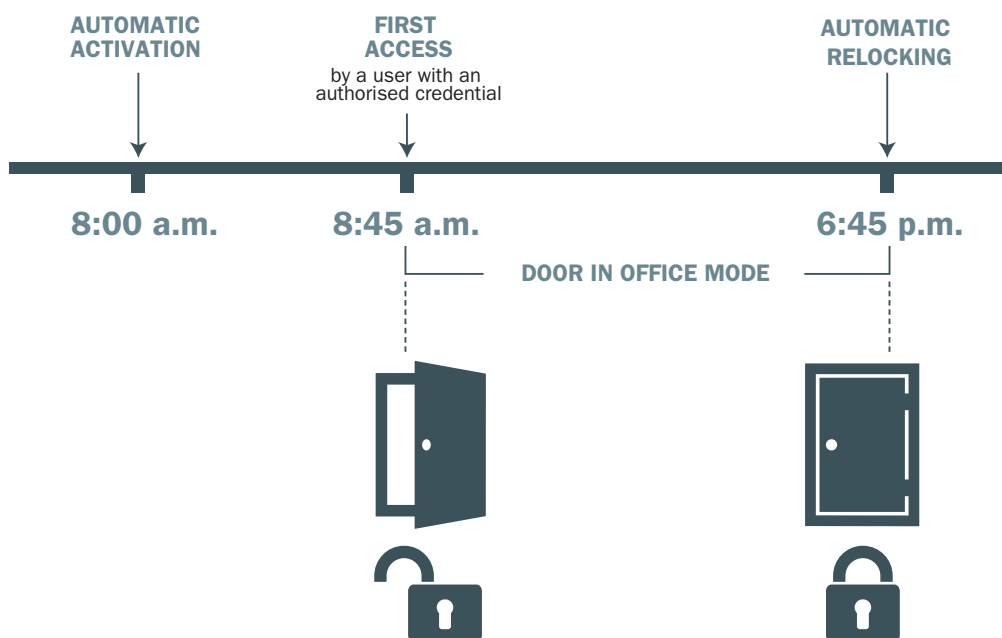
Select the days and time.





## ENTRANCE OF FIRST USER

Office Mode is only truly activated when the first user enters with an authorised credential.



### LIGHT OFFICE MODE FOR x1R SMART



For armoured doors (used for example in offices), the door doesn't always stay open in Office Mode; it closes with the latch only. This is called Light Office Mode because, by avoiding the movement of the deadbolts every time the door closes, it allows greater energy savings, less mechanical wear and enhanced use in terms of noise reduction and speed.

# ISEO ARGO

## Invitations

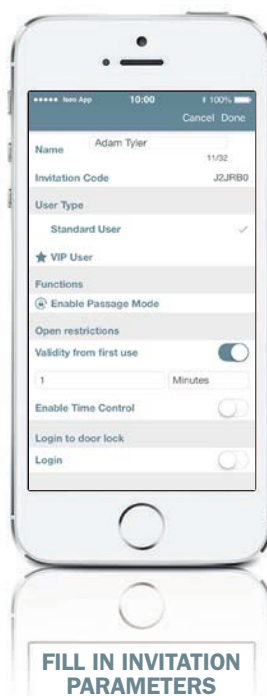
Invitations allow telephones to self-register in the lock as users. In a company context, for instance, the invitation function allows colleagues to add their smartphone to the user list thanks to the invitation code they are sent, without needing to physically take their smartphone near to the door for data storage purposes.

The administrator must first of all programme the invitation code on the lock as one of the 300 users. When the user arrives in front of the door, he/she selects it and types in the invitation code. The door is opened via the smartphone.

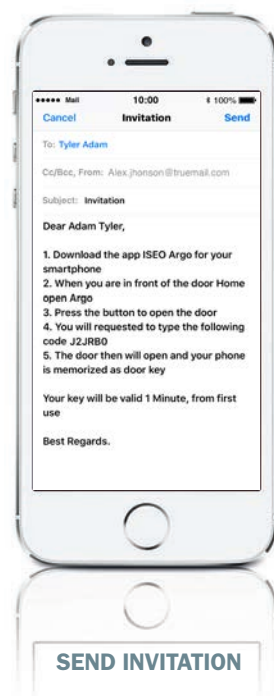
At the same time, the telephone self-registers in the user list for the period of time specified in the invitation. The invitation code can be used once only.



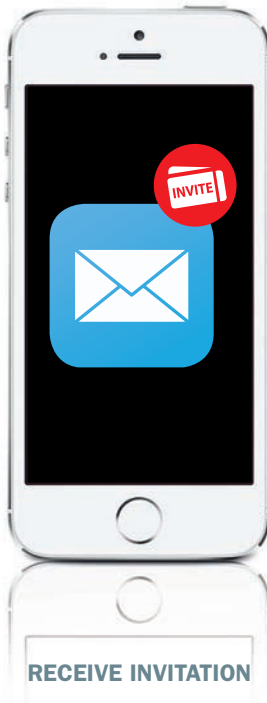
The administrator selects "add user" and adds an invitation code to the user list for that door.



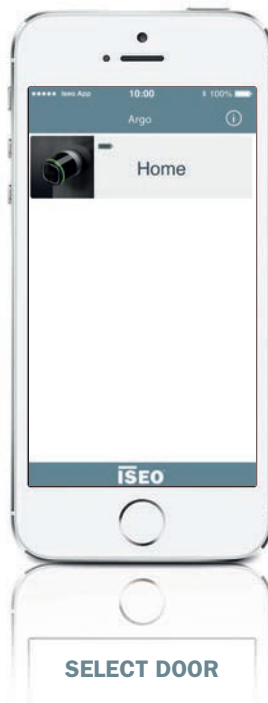
The administrator programmes the invitation parameters as for a user. In addition to validity and time schedules, the validity can also be specified in minutes/hours/days from the first use of the invitation code.



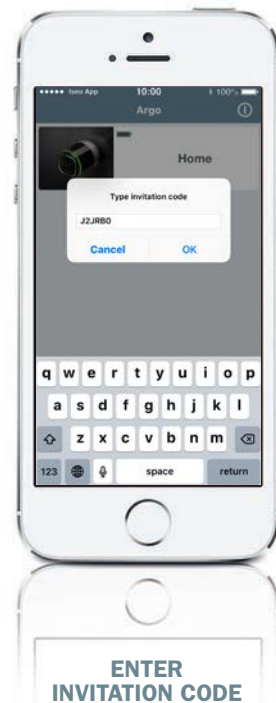
The administrator sends the invitation code via e-mail to the user who isn't yet registered on the door.



The user receives the invitation code on his/her telephone.



The user opens the Argo app and presses the door opening button. The invitation code is requested.



When the valid (pre-stored) invitation code is typed in, the door opens and registers the telephone in the user list. The invitation code can be used once only.

## DOOR OPENING



# ISEO ARGO

## Remote key delivery

If you manage an accommodation business such as a small hotel or a B&B, or you rent out an apartment, your guests can check in at any time. You can use the Remote Key Delivery function on locks of the Smart range to:

- give your guests the possibility of remote access
- manage your hospitality business remotely and while on the move
- offer your guests an unforgettable experience based on comfort and innovation.

### PAY PER USE

Remote key delivery is a Pay per Use service that you can add at any time using the two additional free apps Argo Host and Argo Guest, and the Argo Cloud platform (only available for the Argo remote virtual key delivery service). It's an additional, optional service on top of the standard Argo system, with a price charged only when it's effectively used. Every time Argo Host generates a virtual key, the key credit on the account is reduced by one unit. A single virtual key can, however, be shared by all the guests of the same room, in the same period of stay, and for all the public doors on the path to the room.

The remote key delivery function can be used for guests, whereas staff and all permanent users can use the free invitations function to register their telephones on the lock.



Argo Host and Argo Guest require an Internet connection to the Cloud platform of the Argo remote key delivery service.

Remote key  
delivery

#### KEY CREDIT

A virtual key count is associated with each system, to store the key credits. Each virtual key issued reduces the credit by one unit. The host can “reload” virtual key credits by activating the Argo credit reload codes.

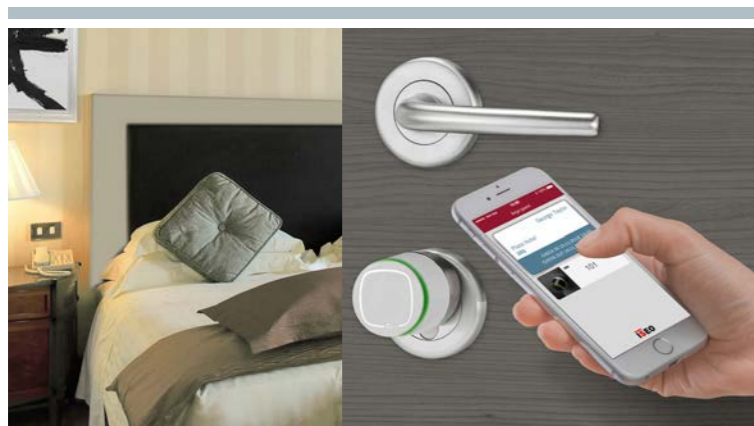


The Argo reload codes are hidden on reload scratch cards that have a 12-month validity: you need to reload your account at least every 12 months, otherwise your credit will be frozen.

When you reload, previously frozen credits will also be reactivated. The account will be permanently deleted if 24 months have gone by since the last reload.

#### VIRTUAL KEYS

Argo Host sends the virtual keys to Argo Guest via e-mail, text message or any other communication app.



#### OPEN DOOR

Your guest opens Argo Guest and presses the button corresponding to the door that he/she is authorised to open.

With Argo Host, a virtual key can be revoked at any time and a new one can be issued in the event of a room change or an extension to the guest's stay.

A WIDE RANGE  
OF SOLUTIONS MANAGED  
WITH YOUR SMARTPHONE



# ISEO ARGO

## Applications



### OWNER

The owner manages access via the Argo app installed on his/her smartphone, and can view the events on the lock. The Master Card for programming Smart locks is kept in a safe place by the owner.



### USERS

Users are the family members, dental surgery employees or service staff that use their smartphone, card or PIN to access the doors of the building for which they are authorised.



### SERVICE STAFF

Service staff (gardeners, housekeepers, etc.) can occasionally access the property using a PIN code, but only during their specific time schedule.



### EMPLOYEES

Employees can access the doors for which they are authorised during their specific work times only.



### RESIDENTS

Residents can use the drive-through gate by opening it from inside their car with the aid of the Argo app, without any need for a remote control device.



### GUESTS

B&B guests can arrive at any time. The Argo HOST app can be used to send the virtual keys to the guests at any time, and from anywhere. With the Argo GUEST app, they can receive the virtual keys and open the doors for an unforgettable stay.



### NIGHT-TIME SECURITY GUARD

Night-time security guards can only access the boundary doors for which they are authorised, and during their night shift only (after midnight).

1

**PEDESTRIAN GATE** Stylos Smart Display

2

**DRIVE-THROUGH GATE** Stylos Smart LED

3

**INTERNAL ARMoured DOOR**

Libra Smart with protection for armoured doors

4

**MAIN ARMoured DOOR**

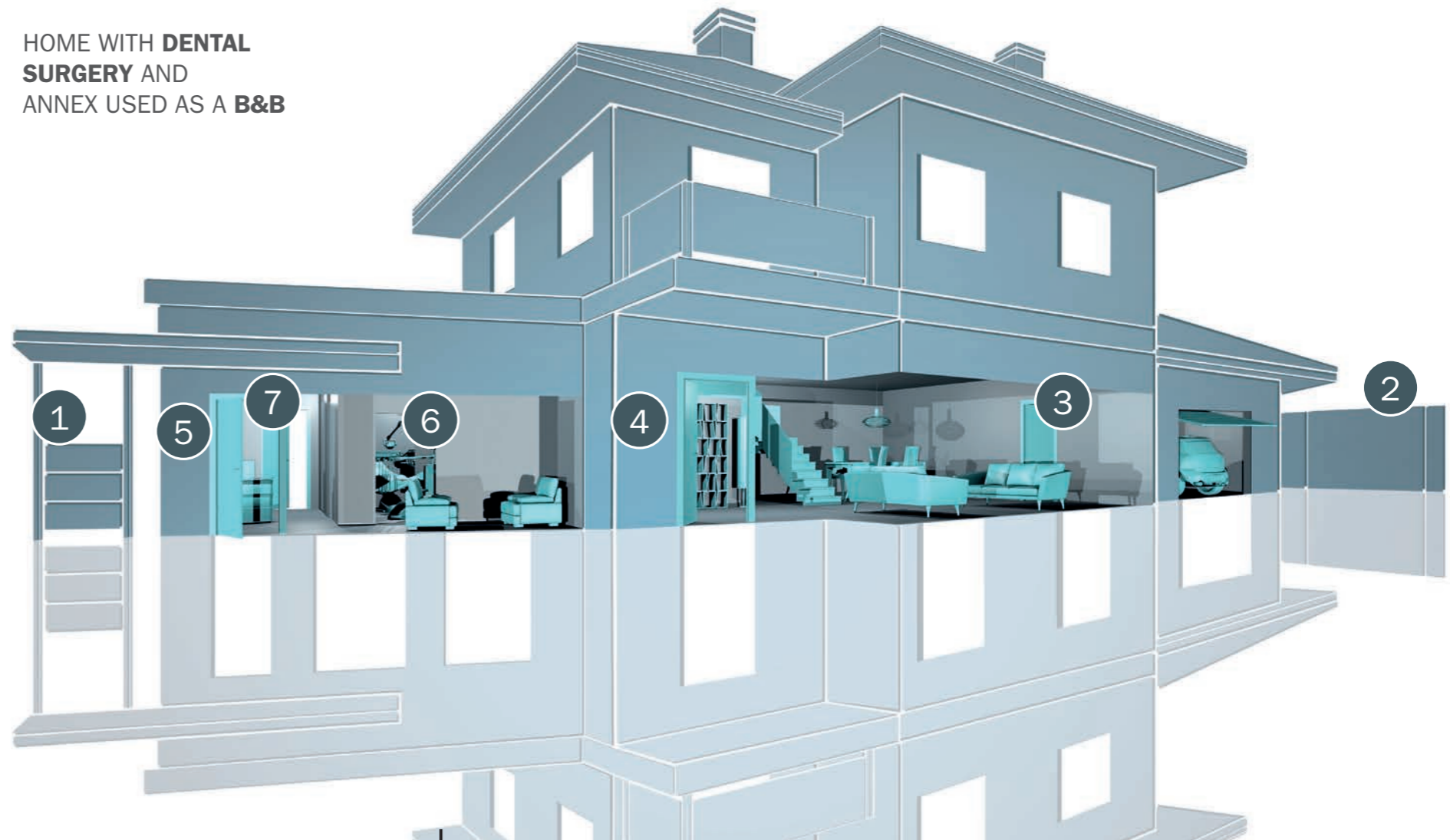
x1R Smart

5

**DENTAL SURGERY ENTRANCE DOOR**

Stylos LED with Multiblindo eMotion motorised lock

HOME WITH **DENTAL SURGERY** AND ANNEX USED AS A **B&B**





#### CHANGING ACCESS RIGHTS

An employee needs to access a different group of doors. The owner deletes the employee from those doors no longer used, and adds him/her to the new doors.



#### EXTENDING THE PLAN

A new door is installed on the property. The user list is transferred to this new door.



#### VIEWING EVENTS

The owner can view the access log for a specific door at any time, and send it via e-mail to his/her account in order to read it more easily.



#### LOST CARD

An employee has lost the card used to open certain doors on the property, and informs the owner. The owner goes to the doors in question and deletes the lost card, programming a new one.



#### CHANGE OF SMARTPHONE

An employee gets a new smartphone model. The owner sends an invitation code to the employee so the new telephone can be self-registered the first time he/she opens the door. The owner disables the old telephone by accessing the user list.



#### TERMINATION OF EMPLOYMENT

An employee stops working for the company before his/her credential (card, smartphone or PIN) has expired. The owner deletes the credential from all the doors on which it was authorised.



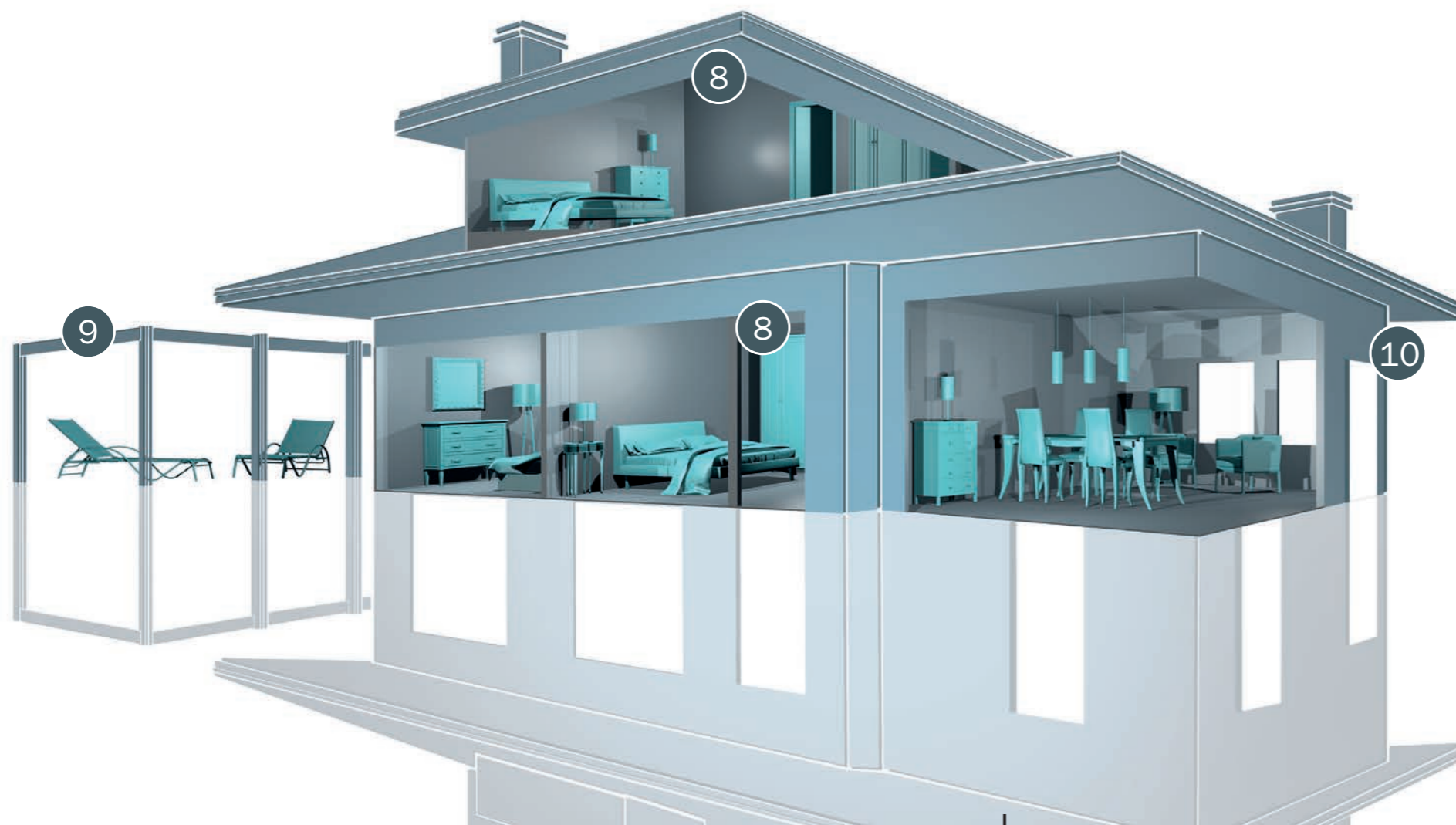
#### RENEWING THE CREDENTIAL

A credential validity has expired. The owner extends the validity period on the individual doors.



#### UPDATING THE ARGO APP

ISEO updates the Argo app on its store, adding new functions. When users open a door with their smartphone, they're informed about the latest update and the owner can update the lock software with his/her smartphone.



**6** **INTERNAL DENTAL SURGERY DOOR**  
Libra Smart

**7** **EMERGENCY EXIT**  
Libra Smart, Libra All Weather + Trim with bar handle

**8** **ANNEX ROOMS**  
Aries Smart

**9** **SWIMMING POOL**  
Smart Locker

**10** **SHARED ANNEX AREA**  
Aries Smart with bar handle for emergency exit







## THE NEW WAY TO MANAGE YOUR DOOR

## ISEO ARGO

### Comparison Invitations and Remote key delivery



	INVITATIONS	REMOTE KEY SENDING
Aim	Self-registration	Sending of a virtual key
User	Employees	Guests
Apps needed		 
Internet connection and cloud service registration	NO	
Administrator's tasks	Prepare invitation on the door	Send virtual key at any time and from anywhere
Cost	Free	Pay per Use
Maximum credential validity	Unlimited	30 days
Maximum number of users	300	Unlimited

# Credentials

## MASTER CARD

Master Cards are used to programme the devices of the Smart range in order to assign access rights to the users. Each Master Card set has a unique system code and consists of 3 cards in sequence, ensuring that the system remains secure even if a Master Card is lost. In the event of loss, the Master Card with the highest number invalidates the previous ones. It's always possible to start again from Master Card number 1 of a new Master Card set, but only if you still have Master Card number 3 of the previous Master Card set.



Card number .....  
System code .....



## USER CARDS

ISEO cards, existing MIFARE or MIFARE DESFIRE cards, ISO14443 A or B cards with a UID (Unique Identifier) or tags, can be used as door keys. Just present the credential a few centimetres from the reader. ISEO cards are more secure than the general pre-existing cards as their UID is protected and encrypted.

UID (Unique Identifier) .....



## Aries SMART



Thanks to its simplicity and flexible installation, the **Aries Smart** electronic trim set can be installed on almost any door currently available on the market, and it's designed to work with most mechanical locks.

It's battery operated, so doesn't require any wiring. This makes it the ideal solution for managing access, ensuring optimum flexibility and low installation costs for both new installations and application on existing doors.

Aries Smart comes in two versions:

- **IP54** for “protected” installations (internal doors)
- **IP55** for “outside” installations (external doors)

## MAIN FEATURES

### □ FREE HANDLE MOVEMENT

With the door closed, the handle can rotate freely without engaging the lock. When a valid credential is detected, the handle set engages the lock so the handle can be moved to draw back the latch and deadbolt.

### □ OFFICE FUNCTION

With the hold-open (office) function, the set can be kept engaged without consuming the batteries.

### □ PRIVACY FUNCTION

The optional privacy detection device has an ergonomic form for easier use. It makes Aries Smart ideal for use in hospitality facilities like hotels or B&B structures.

### □ MECHANICAL EMERGENCY CYLINDER

The mechanical emergency cylinder (optional), hidden underneath the external plate or visible (for a centre distance of 85mm), allows the door to be opened in any situation by means of the mechanical key (for instance when the batteries have run down). The opening operation is recorded in the events log of the lock. It's a high-security ISEO R90 Factory half-cylinder with a key that can be mechanically recoded up to 3 times, and it's supplied in KA on the same system.

### □ EXTERNAL EMERGENCY POWER SUPPLY

For installations without a mechanical emergency cylinder, there's a connector located under the external plate for powering Aries Smart with a standard 9V battery.

### □ SIMPLE TO INSTALL

Assembly requires just three holes in the door - one for the handle set and two for the fixing screws - for quick, easy installation on existing doors.



#### ❑ NO ELECTRICAL CONNECTIONS

Battery operation and the absence of electrical connections mean excellent flexibility and low installation costs, both on new doors and existing ones.

#### ❑ OPTIMUM COMPATIBILITY WITH MECHANICAL LOCKS

Aries Smart is compatible with most mechanical locks that have:

- a handle set of 7, 8 or 9mm (9mm with adapter)
- a follower/cylinder centre distance of 70, 72, 85 or 92mm
- a minimum case size of 25mm
- a hole for European profile cylinders
- a latch only, or automatic deadbolt

#### ❑ RFID MULTI-STANDARD SCANNER

The 13.56 MHz ISO 14443 A/B scanner is compatible with cards or tags - Mifare Classic, Mifare Plus and Mifare DesFire.

#### ❑ HANDLE MOVEMENT DETECTION

Thanks to the movement sensor on the internal handle, openings made from the inner side of the door can also be recorded in the lock events log.

#### ❑ ENERGY SAVINGS ON THE BATTERIES

The patented system for activating the lock via credentials (using the RFID scanner) means efficient energy management of the batteries.

#### ❑ BATTERIES

Aries Smart is powered by 2 lithium batteries - model ER14505M (3.6V AA). The batteries are located on the internal side of the door, to avoid any risk of tampering or vandalism.

#### ❑ DESIGN AND FINISH

The elegant, streamlined shape and the finishes in stainless steel, polished stainless steel, satin brass (PVD), polished brass (PVD) and AntiGerm (upon request) means the ARIES handle plate fits perfectly into any context, whether classic or modern.

#### ❑ SUITABLE FOR EMERGENCY EXITS

Aries Smart can be installed in emergency exits, with:

- EN179 certification available with certain locks
- EN1125 certification available with the ISEO panic devices of the Pro EXIT, IDEA, Push and Pad ranges.

#### ❑ ENVIRONMENTAL FEATURES

- Operating temperature: -20°C to +60°C
- Storage temperature: -25°C to +75°C

# ISEO ARGO

## Libra SMART



The **Libra Smart** electronic cylinder can be easily installed on both new and existing doors. It can be used with any type of mechanical lock compatible with the European cylinder, and doesn't require any wiring so it's simple to switch from a mechanical cylinder to an electronic one.

Libra Smart is also available in a Heavy Duty version, suitable for use in any environmental conditions and complete with a protective anti-drilling device (on the cylinder body) and an anti-tear function. This product has obtained the highest levels of international security certification. It's the only cylinder in the world with a protection rating of IP66, IP67, IP69.



ADI Design



HONOURABLE MENTION  
XXIII  
Compasso d'Oro



German Design Award



IFSEC'S  
Security  
& Fire

The Libra Smart electronic cylinder was selected for the 2013 ADI Design Index, and was given a Mention of Honour at the 23rd edition of the Compasso d'Oro award. It was also among the finalists at the 2014 IFSEC Security & Fire Excellence Awards, and was nominated for the 2015 German Design Awards.

## MAIN FEATURES

### □ FREE KNOB MOVEMENT

With the door closed, the knob handle can rotate freely without engaging the lock. When a valid credential is detected, the cylinder engages the lock so the knob can be moved to draw back the latch and deadbolt, just like with a mechanical cylinder.

### □ OFFICE FUNCTION

With the hold-open (office) function, the cylinder can be kept engaged with the lock without consuming the batteries.

### □ SIMPLE TO INSTALL

Assembly on existing doors requires just the quick replacement of the existing mechanical cylinder, without any work on the door itself.

### □ COMPATIBLE WITH ALL MECHANICAL LOCKS

Libra Smart is compatible with all mechanical locks with a European profile cylinder hole (EN 1303, DIN 18252). The Libra Smart electronic cylinder is the same size as a traditional mechanical cylinder.

### □ NO ELECTRICAL CONNECTIONS

Battery operation and the absence of electrical connections mean excellent flexibility and low installation costs, both on new doors and existing ones.

## ▣ CONFIGURATIONS

Libra Smart offers a multitude of configurations:

- External electronic knob (with free rotation) and internal mechanical knob (standard or premium type)
- External electronic knob (with free rotation) and internal electronic knob (with free rotation)
- Half cylinder with external electronic knob (with free rotation)
- Version for panic locks (with free rotation), with cam that returns to the vertical position autonomously
- Version compatible with Defender protection device
- Version for indoor use (IP54)
- Version for high-security outdoor contexts (Heavy Duty IP66)

### Special versions:

- oval Scandinavian body
- oval Australian body
- round ANSI body

## ▣ WIDE RANGE OF DOOR THICKNESS

Libra Smart can be installed on a wide range of door shims:

- up to 120mm (standard version)
- up to 140mm (version available upon request)

## ▣ RFID MULTI-STANDARD SCANNER

The 13.56 MHz ISO 14443 A/B scanner is compatible with cards or tags - Mifare Classic, Mifare Plus and Mifare DesFire.

## ▣ ENERGY SAVINGS ON THE BATTERIES

The patented system for activating the lock via credentials (using the RFID scanner) means efficient energy management of the batteries.

## ▣ BATTERIES

Libra Smart is powered by a lithium battery - model ER17335M (3.6V 2/3A) - accessed from the outside so it can be replaced even when the door is closed.

## ▣ DESIGN AND FINISH

The elegant, streamlined shape, and the finishes for the metal parts and the parts in compound materials, mean the Libra Smart electronic cylinder fits perfectly into any context, whether classic or modern.

- Finishes for metal parts: stainless steel, polished stainless steel, satin brass, polished brass.
- Colours of the compound material: glossy black, glossy white

For the compound material, special colours are also available upon request, and a personalised logo can also be imprinted.

## ▣ CERTIFICATIONS

Libra Smart is certified as EN15684:2013-01, with the following classifications:

- IP54 versions for indoors: classification 1604AF30
- IP66 Heavy Duty version for outdoors: classification 1604AF32

## ▣ ENVIRONMENTAL FEATURES

- Operating temperature: -20°C to +70°C
- Storage temperature: -25°C to +75°C

# ISEO ARGO

## x1R SMART



**x1R Smart** is a motorised electronic lock purposely designed for use on steel reinforced doors. The opening and closing functions are controlled by a motor and an electronic card with a state-of-the-art microprocessor. Even in the event of a power failure, the door can still be opened using the mechanical key which, thanks to a security system, can disconnect the motor during the activation of the mechanical cylinder.

## MAIN FEATURES

### □ OPENING AND AUTOMATIC RECLOSURE

With the door closed, an opening command (via card, tag, telephone, PIN or remote button) causes the lock to draw back the deadbolts and latch so that the person can enter the room. In standard mode, the lock automatically recloses the deadbolts when the door is closed, thereby restoring the optimum security condition.

### □ SINGLE ACTION (ANTI-PANIC)

x1R Smart is also available in the Single Action version: the internal handle draws back the latch and deadbolts in one smooth movement. This means the user can always open the door quickly and easily from the inside by simply pressing down on the handle, even if the deadbolts are extended (door in maximum security condition). This function is also called "anti-panic" because it can be combined with emergency exit devices.

### □ COMPATIBLE WITH THE LEADING MECHANICAL LOCKS FOR STEEL REINFORCED DOORS

x1R Smart can be interchanged with the most commonly used mechanical locks for steel reinforced doors, and the simple electrical connections ensure easy installation. The total stroke of the deadbolts when the door is closed in security conditions is 30mm. The latch diameter is 20mm.

### □ REVERSIBLE HAND

All the versions of x1R Smart are reversible, and come with different deadbolt protrusion and centre distance values to meet every possible production and installation requisite of the door manufacturers.

### □ CERTIFIED FOR OPTIMUM SECURITY

x1R Smart is certified in accordance with EN 14846:2008, with classification 3X9E0P713. The Single Action version is also certified EN 179:2008, with classification 377B1452AB (device for emergency exits, activated with a lever bar handle).



#### □ LIGHT OR FREE OFFICE MODE CONFIGURATION

With x1R Smart, the Argo app can be used to configure the "hold-open" (office) function in Light or Free mode, without any extra battery consumption:

**Light:** the lock only closes with the latch. This mode ensures higher energy savings, less mechanical wear and enhanced use in terms of noise reduction and speed.

**Free:** the lock keeps the latch and deadbolt drawn back to ensure free access.

The Light and Free functions can be activated via the telephone, card or remote opening button, or they can be automatically programmed for specific days and times.

#### □ BACKLIT KEYPAD

The backlit keypad can be used to open the door even in the dark, by entering a PIN of 4-14 characters.

#### □ POWER SUPPLY AND ENERGY MANAGEMENT

x1R Smart offers different power supply configurations to suit the different types of installation and meet energy management requisites. There are three main configurations:

1. Powered by alkaline batteries
2. Powered by electricity
3. Powered by electricity (via door contact sensors) and alkaline batteries

#### □ OPENING WITH MECHANICAL KEY

If the batteries are run down or there's an electricity failure, the door can still be opened with the mechanical key.

#### □ DOMOTICS

Thanks to the door status relay integrated in the electronic card, and the optoinsulated input for the remote opening command, x1R Smart can easily be integrated in a domestic domotic system or burglar alarm.

#### □ DOOR STATUS

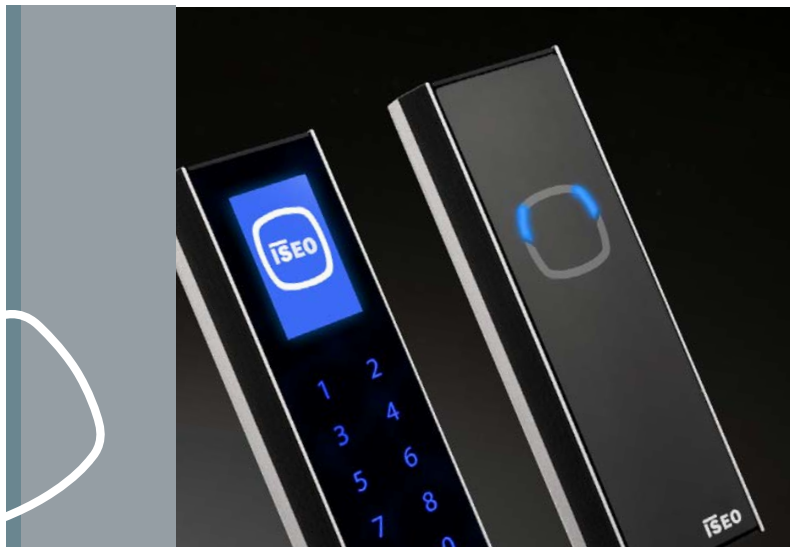
x1R Smart uses a sensor, and a relay integrated in the electronic card, to supply a "door status" signal that can be used in the domotic system of the home. With the aid of Argo app, the relay can also be configured as a single impulse for activating, for example, a motorised door opener/closer. The "door status" signal from the relay output is only available with the "powered by electricity" configuration.

#### □ REMOTE OPENING COMMAND

x1R Smart has an optoinsulated input in the electronic card (8-30V DC / V AC), which can be used for a remote opening command such as the entryphone button or an opening button in the enclosure or at the porter's desk.

# ISEO ARGO

## Stylos LED & Display SMART



When used alongside the electric lock actuator, the **Stylos Smart** credentials reader allows you to control any electric device. Stylos Smart comes in 2 models:

- Stylos Smart Display with keypad
- Stylos Smart LED

Stylos Smart LED has 2 versions - for indoors or outdoors (IP66).

## MAIN FEATURES

### □ CONTROL OF ANY ELECTRICALLY COMMANDED DEVICE

Three wires (power supply, earth and data) connect the Stylos Smart credentials reader to the electronic actuator for electric locks via Lockbus. When a valid credential is detected, the actuator relay is closed to allow any electrical device (electric locks, bars, gates, sliding doors, lifts, turnstiles etc.) to be commanded.

### □ CONTROL OF ISEO LOCKS VIA LOCKBUS

ISEO locks with the Lockbus communication interface (e.g. the Thesis 2.0 electric piston) can be directly connected with Stylos Smart, without any need for external actuators.

### □ MANAGEMENT OF INTERLOCKED PASSAGES

Stylos Smart can also be used to autonomously manage twin passage situations, with interlock and signalling semaphore functions.

### □ WIDE RANGE OF SUPPLY VOLTAGE LEVELS

The Stylos Smart reader and the actuator can be powered with a wide range of supply voltage levels: from 8V DC to 30V DC, using the existing power supply in most cases.

### □ LOCKBUS: SIMPLE INSTALLATION, AND SECURITY

The Lockbus encrypted communication protocol (ISEO-owned) offers the following advantages:

- Data and power supply on the same 3-wire connection (up to 100m in total)
- Self-regulating power supply from 8V DC to 30V DC
- Safe authentication of the devices (between scanners and actuators), and cryptographic data transmission, guaranteeing high protection against tampering.



#### □ OFFICE FUNCTION

The "hold-open" (office) function allows the relay to be kept closed (engaged).

#### □ WALL INSTALLATION

Assembly is by surface mounting: on a wall or a profile in metal (or another material). A spacer is available as an accessory, to facilitate assembly in certain cases: with exposed trunking, on uneven surfaces, to increase the distance from the wall, to reduce the diameter of the hole needed for the cable connector.

#### □ RFID MULTI-STANDARD SCANNER

The 13.56 MHz ISO 14443 A/B scanner is compatible with cards or tags - Mifare Classic, Mifare Plus and Mifare DesFire.

#### □ OPENING WITH PIN

The Stylos Smart Display model, with a capacitive keypad with 12 backlit keys, can also be used to open the door with a PIN code (apart from with card or telephone).

#### □ DISPLAY

Stylos Smart Display has a graphic display of the O-LED type (128x64 pixels), for enhanced signalling and greater user comfort.

#### □ ENVIRONMENTAL FEATURES

- Operating temperature: -20°C to +60°C
- Storage temperature: -25°C to +75°C

# ISEO **ARGO**

## SMART **Locker**



**Smart Locker** is a lock that can be installed on a wide range of lockers and cupboards to keep people's property safe while they're in the office, the gym, swimming pool, or any other situation where personal belongings need to be temporarily safeguarded.

## MAIN FEATURES

### ▣ JUST CLOSE TO LOCK

The cupboard door is locked merely by closing it. When a valid credential is detected, the lock is released and the cupboard can be opened.

### ▣ SIMPLE TO INSTALL

The reader is quick and easy to install, requiring just two holes for the two screws that hold it in place, plus a slot for the wires to pass through.

### ▣ NO ELECTRICAL CONNECTIONS

It's battery operated, so ensures optimum flexibility and low installation costs for both new lockers and application on existing lockers that work with mechanical keys.

### ▣ RFID MULTI-STANDARD SCANNER

The 13.56 MHz ISO 14443 A/B reader is compatible with cards or tags - Mifare Classic, Mifare Plus and Mifare DesFire.

### ▣ ENERGY SAVINGS ON THE BATTERIES

The patented system for activating the lock via credentials (using the RFID reader) means efficient energy management of the batteries.

### ▣ BATTERIES

Smart Locker is powered by 2 lithium batteries - model ER14505M (3.6V AA). The batteries are located on the internal side of the door, to avoid any risk of tampering or vandalism.



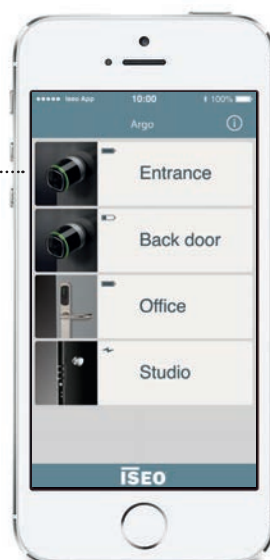
## ARGO App

The Argo app opens and programmes all the locks of ISEO's Smart range.

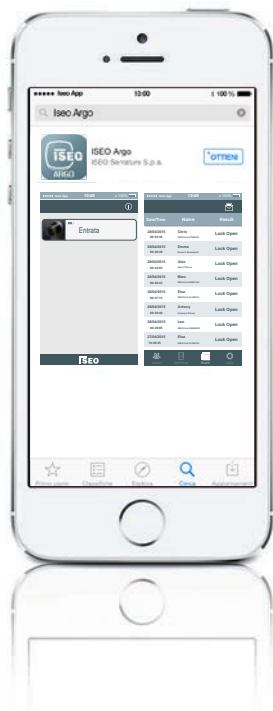
### OPEN THE DOOR

When you open the Argo app, you'll see all the ISEO Smart locks installed nearby. Just touch the button icon corresponding to your door to open the lock.

Touch to open



### APP AND FREE UPDATES

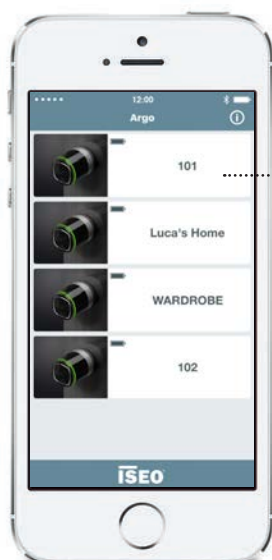


# ISEO ARGO



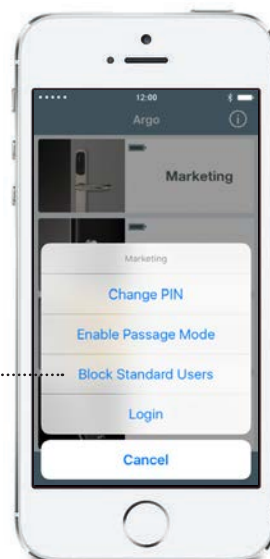
## ADDITIONAL ADVANCED FUNCTIONS

If additional functions are enabled for the smartphone, just touch and hold the button icon corresponding to your lock to open all the possible options:



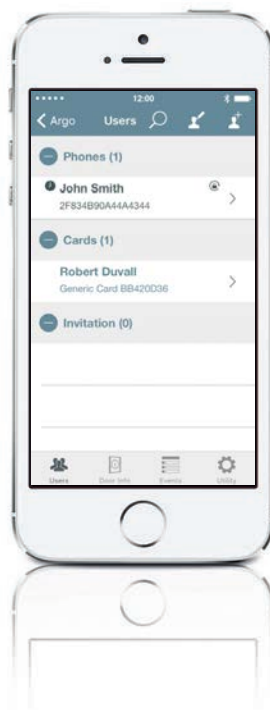
Touch and hold to view the additional functions

Select the required option



## PROGRAMMING THE LOCK

In programming mode, the display shows the user list as the main page. You can access other menus by means of the icons on the bar at the bottom.



### USERS

- ☐ View the user list
- ☐ Add users
- ☐ Delete users



### DOOR INFO

- ☐ Change the door name
- ☐ Change the opening time
- ☐ View information about the device and the software version
- ☐ Configure programmed office mode



### EVENTS

- ☐ View the last 1000 events
- ☐ Send the events via e-mail



### UTILITIES

- ☐ Transfer the user list
- ☐ Update the software
- ☐ Dump information

# ISEO **ARGO**

## Main features



### ARGO APP

- ❑ Works with Bluetooth Smart Ready telephones
- ❑ Operating systems:
  - *Android (from version 4.3)*
  - *iOS (from iPhone 4s with iOS 7)*
- ❑ Communication via Bluetooth Smart (also called Bluetooth Low Energy or Bluetooth 4.0)
- ❑ Safe communication, protected via:
  - *AES 128 cryptography*
  - *AES session key generated with a DHEC (Diffie Hellman Elliptic Curves) algorithm*
  - *Random Number generator complying with NIST (National Institute of Standards and Technology) specifications*
- ❑ No additional software to install
- ❑ No internet connection required

### OPENING OF DOORS VIA

- ❑ Smartphone (distance of up to 10 metres)
- ❑ Smartphone protected with PIN code





## LOCK PROGRAMMING AND ACCESS CONSENT MANAGEMENT

- ❑ Access in programming mode with:
  - Master Card
  - Login via telephone protected by PIN code
  - Login via telephone without PIN code
- ❑ Add new users (card, tag, smartphone, PIN)
- ❑ Add invitation codes for the self-registration of a smartphone
- ❑ Assign timed validity for a user (start date/time and end date/time)
- ❑ Assign 2 weekly time schedules for every user, on defined days of the week
- ❑ Assign validity from the first use of a credential, or in terms of days, hours or minutes
- ❑ Assign Standard or VIP type for every user
- ❑ Assign the Office Function for users
- ❑ Assign the Standard User Block function for VIP users (to allow access for VIP users only)
- ❑ Delete users via quick selection of expired users
- ❑ Search for users
- ❑ Transfer selected users to other locks (copy and paste)
- ❑ Configure Programmed Office Mode
- ❑ View the lock battery status
- ❑ Programme the door name and other advanced parameters
- ❑ Read the events on the lock, and send the log file of the last 1000 events via e-mail
- ❑ Dump the lock information to send it to ISEO customer service for additional checks
- ❑ Notify availability of lock software updates
- ❑ Add new functions via the software update



## ARGO Host

Used to send virtual keys and enable the initial system configuration.

- ❑ Works with Bluetooth Smart Ready telephones
- ❑ Operating systems:
  - *Android (from version 4.3)*
  - *iOS (from iPhone 4s with iOS 7)*
- ❑ Communication via Bluetooth Smart (also called Bluetooth Low Energy or Bluetooth 4.0)
- ❑ Communication with the Argo Cloud service (remote key sending) protected by:
  - *TLS 1.2 asymmetrical coding*
  - *System authentication managed via OAuth2 Grant Type (Resource Owner Password Credentials)*

### MANAGEMENT FUNCTIONS

- ❑ Communication via Bluetooth Smart (also called Bluetooth Low Energy or Bluetooth 4.0)
- ❑ Creation and sending of virtual keys via e-mail, text message or any other communication app
- ❑ Revoking of virtual keys
- ❑ Visualisation and search for virtual key credits
- ❑ Visualisation of opening events using virtual keys
- ❑ Visualisation of operations carried out by the administrator
- ❑ Reset of account password if it's forgotten: the passwords are saved in cryptographed form (Bcrypt hashing) in the Argo remote key sending cloud, so ISEO doesn't know the administrators' passwords

### CONFIGURATION FUNCTIONS

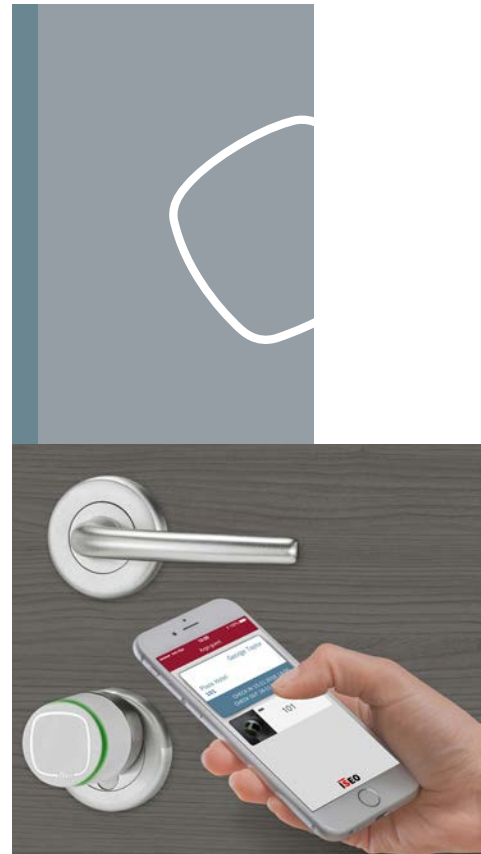
- ❑ Register with the Argo remote key delivery cloud service, and create an account for managing the system
- ❑ Register system locks on the account
- ❑ Create lock groups
- ❑ Configure the welcome message and instructions for the customer via "key words"
- ❑ Configure the check-in time, check-out time and default duration parameters
- ❑ Delete a lock from an account
- ❑ Change the name of a lock



## ARGO Guest

Argo Guest is used to receive and view the virtual key, and open the door. Argo Guest requires an internet connection as it has to connect to the Argo remote key delivery Cloud.

- ❑ Works with Bluetooth Smart Ready telephones
- ❑ Operating systems:
  - Android (from version 4.3)
  - iOS (from iPhone 4s with iOS 7)
- ❑ Communication via Bluetooth Smart (also called Bluetooth Low Energy or Bluetooth 4.0)
- ❑ Safe communication with the lock, protected via:
  - AES 128 asymmetrical coding
  - AES session key generated with a DHEC (Diffie Hellman Elliptic Curves) algorithm
  - Random Number generator complying with NIST (National Institute of Standards and Technology) specifications
- ❑ Communication with the Argo Cloud service (remote key sending) protected by:
  - TLS 1.2 asymmetrical coding
  - System authentication managed via OAuth2 Grant Type (Resource Owner Password Credentials)



### FUNCTIONS

- ❑ Visualisation of the virtual key with user name, system name, door (or group of doors) and start/end validity
- ❑ Visualisation only of those locks with access rights
- ❑ Opening by pressing the icon corresponding to the door in question (distance of up to 10 metres)

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