MUCH MORE THAN
A GUEST ROOM LOCK
For over a decade, SALTO Systems has been the leader in RFID technology in access control, securing thousands of commercial buildings worldwide.

SALTO’s presence in the hospitality industry has been equally spectacular with its access control systems having been installed in some of the finest hotels throughout the world. SALTO has worked with more than 6000 prestigious boutique, luxury and resort hotels worldwide, in addition to other types of vacation properties and holiday resorts.

At SALTO, delivering outstanding solutions to hospitality industry customers is at the heart of what we do. SALTO technology covers the breadth of customer's needs: taking care of property security, as well as streamlining and maximizing staff management activities.
The central objective of a hotel’s security system is to provide a convenient, comfortable, safe and secure experience for guests throughout their stay.

When guests arrive at a hotel, they want to check in and get started on what they came to do: hang back and relax, or start in on work. That means that all the steps of the check in process need to work seamlessly, from issuing the guest card to guests being able to flawlessly access their room, pool area, spa or other amenities.

SALTO adds value to any hotel by providing security and reliable access control 24/7 that covers the entire property.

**THE EVOLUTION OF GUEST EXPECTATIONS**

**THE SALTO SEAMLESS EXPERIENCE**

GUEST SERVICES
- Reassignment of rooms or extension of stay without having to visit the front desk.
- Cashless payments via PMS, compatible with RFID multi-application cards.
- Additional services such as the gym, pool, lockers and spa can be assigned remotely.
- Guest card can be used to access additional facilities i.e., parking areas, golf course, business centre, etc.

GUEST CONVENIENCE
- RFID technology means reliability.
  - No visits to the front desk.
  - Cards don’t get demagnetized.
  - No battery failure.
  - Guests will not be locked out.
  - The SALTO Virtual Network technology (SVN) alerts maintenance staff prior to when batteries need to be replaced.

GUEST COMFORT
- Possibility to access other areas before entering the room.
  - Reliable, robust and waterproof access cards, fobs and bracelets that can be used in wet areas like pools and spas.
  - Privacy mode shows in real-time that the guest is in the room, thereby avoiding staff disturbance.

GUEST SECURITY
- Encrypted high-security cards prevent fraud and card cloning.
  - Automatic guest key cancellation after check out for increased security.
  - Lost keys are cancelled instantly for guests’ security and peace of mind.
SALTO is more than an electronic lock. It is a complete access control system with specific features that add value for the hospitality industry.
SALTO not only controls and secures guest rooms; it can also be used to manage all back-of-house doors used by staff, visitors and suppliers. SALTO provides full control of who can access what, when and where, within the entire property, and can integrate this with CCTV, alarm, time and attendance or other systems, if required.

Thanks to the audit trail capabilities of the SALTO system, staff can be tracked and their access rights can be changed on the fly as needed. The audit trail information can be downloaded to the system and full access control of all doors can be done without leaving the security room.

SALTO’s complete and robust RFID access control system allows its hospitality industry customers to be more competitive.

**FEATURES**

<table>
<thead>
<tr>
<th>Features</th>
<th>In-House Benefits</th>
</tr>
</thead>
<tbody>
<tr>
<td>2. A complete product range for any kind of door access.</td>
<td>2. Wide range of options, any door can be fitted with a SALTO solution.</td>
</tr>
<tr>
<td>3. SALTO Locks are networked and perform bidirectional communication.</td>
<td>3. Increases productivity via online communications.</td>
</tr>
<tr>
<td>4. Battery status is reported automatically.</td>
<td>4. Monitors so that door maintenance is done as required.</td>
</tr>
<tr>
<td>5. Integration with third party systems.</td>
<td>5. Compatible with time and attendance, CCTV and PMS systems.</td>
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<tr>
<td>6. Complete and remotely accessible audit trail.</td>
<td>6. No need to physically visit doors:</td>
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<tr>
<td></td>
<td>- Automatic audit trail information download</td>
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<tr>
<td></td>
<td>- Automatic battery status report</td>
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<tr>
<td>7. Automated remote staff key cancellation.</td>
<td>7. Increase security and prevents fraud from having improved control of staff access and management of their access rights.</td>
</tr>
<tr>
<td>8. Custom reporting capabilities.</td>
<td>8. Measurable indicators and statistics can improve productivity including reports of non-scheduled access attempts and staff/contractor timed activities.</td>
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</table>
SALTO uses RFID and NFC technologies which are both R&W (read and write) technologies. In addition, SALTO by default incorporates data-on-card SVN (SALTO Virtual Network) technology into all locks to ensure that access is never compromised.

SALTO’s unique system offers stand-alone, networked and wireless solutions. SALTO is a card-based system that permits the lock and the card to communicate via SVN. The SALTO solution is a true R&W solution.

Such a system allows stand-alone locks to upload, store and download the latest access information as guests and staff use their RFID cards throughout the hotel. The cancelled key list is updated, key cards are cancelled and audit trail reports are downloaded via this wire-free environment. In summary, SVN technology gives the hotel additional security and operating benefits compared to standard hotel locking systems.

**EVOLUTION MADE POSSIBLE THROUGH TECHNOLOGICAL INNOVATION**

**SVN: Data-On-Card**

 FEATURES

- No hard-wiring of doors required.
- Add or delete users remotely.
- Update users profile “on the fly” (calendars, shifts, doors, zones,...)
- Dynamic event audit trail
- Remote stand-alone device battery status report.
- Expiry date renovation process.

 IN-HOUSE BENEFITS

- Lower installation costs.
- Total security and control.
- Flexible user and guest control.
- Appropriate facilities management.
- Continually updated system:
  - Cancelled card list.
  - Data on access granted or rejected.
  - Access plan changes.

THE INFORMATION TRAVELS THROUGH USER’S CARD

**The card transmits to the escutcheon:**

- The user plan to grant access or not.
- Latest and updated user rights.

**The escutcheon transmits to the card:**

- User event (door visited, time, etc.).
- Battery status of the door.
- Access approved or rejected.

**The card transmits to the system:**

- User’s list of doors visited.
- Battery status of visited doors.

**The wall reader transmits to the card:**

- Deleted card list (Black list)
- Latest user rights.
- Expiry date renovation.
The SALTO Wireless System is a new generation of online access control. It connects battery-powered electronic escutcheons by means of low-power radio transceivers (2.4 GHz) fitted on the inside of the escutcheons. These receivers interact with SALTO gateways (connected by Ethernet/WiFi to the central management computer) that are installed in pre-defined SALTO wireless areas to provide a real-time wireless access control network.

With a single click of the mouse, the network can be configured and changes made in real-time. The wireless network and escutcheons can also be monitored to: download audit trail information for real-time control, delete users remotely and securely, collect battery status for maintenance, and much more all from a single PC and all in real-time.

**Guest Services**
- Instant Room Move (IRM)
- Instant Extended Stay (IES)

**Staff Management**
- Online staff tracking
- Real-time monitoring
- Instant master card cancellation
- Dynamic master keys

**Security and Safety**
- Lost card cancellation
- Door ajar alarm
- Intrusion alarm
- Remote opening
- Fully-featured access control software module

**Guest Comfort**
- RFID technology means cards do not demagnetize
- Batteries will not fail unexpectedly

**Front Desk**
- Auto check out
- Privacy mode monitoring to see if the guest is in the room

**Room Management**
- Real-time audit trail
- Automated “low battery report”
- Real-time audit of inside openings
- Passage mode can be activated for meeting rooms
- Remote and real-time problem reporting (plumbing, lighting, room ready, etc.)
SALTO knows the hospitality industry and understands that it is more than just guest room management.

This is why SALTO designed a complete product range especially made for hospitality. Its development was centered on giving hotels the highest levels of comfort, ease and control, allowing them to provide outstanding visitor experiences for their guests.

<table>
<thead>
<tr>
<th>VISITOR MANAGEMENT</th>
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<tbody>
<tr>
<td>It is not just about users and guests. With SALTO, visitor access can be managed by providing temporary access to facilities such as gym, spa, golf course, pool, etc., without compromising security.</td>
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<table>
<thead>
<tr>
<th>EMERGENCY EXIT DEVICES</th>
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<tr>
<td>Emergency exit devices are an important feature of the property. This is why SALTO is compatible with more than 40 of the most popular types of panic bar devices.</td>
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<thead>
<tr>
<th>LOCKER LOCKS</th>
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<tr>
<td>The SALTO electronic locker lock is designed to provide a high level of security protection for hotel lockers in swimming areas, gyms, spas and golf clubs, as well as back-of-house staff areas.</td>
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<table>
<thead>
<tr>
<th>ROOM READY</th>
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<tbody>
<tr>
<td>A perfect tool for a perfect room. The SALTO Wireless System provides valuable information about the status of a room generating daily reports if the room needs to be cleaned or if there is a problem or maintenance needs to be done.</td>
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<table>
<thead>
<tr>
<th>Features</th>
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</thead>
<tbody>
<tr>
<td>More comfort</td>
</tr>
<tr>
<td>SVN Compatible</td>
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<tr>
<td>Multi-application</td>
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<tr>
<td>Cost-effective</td>
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<tr>
<td>Secure</td>
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<tr>
<td>SVN Compatible</td>
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<tr>
<td>Wireless online compatible</td>
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<tr>
<td>All weather</td>
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<tr>
<td>Masterkey solution</td>
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<tr>
<td>Reliable</td>
</tr>
<tr>
<td>SVN Compatible</td>
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<tr>
<td>Back-of-house management</td>
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<tr>
<td>Robust</td>
</tr>
<tr>
<td>Secure</td>
</tr>
<tr>
<td>Reliable</td>
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<tr>
<td>More comfort</td>
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<tr>
<td>Wireless online compatible</td>
</tr>
<tr>
<td>Customization</td>
</tr>
<tr>
<td>Online features</td>
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</tbody>
</table>
ENERGY MANAGEMENT SAVING DEVICES
The SALTO in-room energy saving device (ESD) can save up to 65% of a hotel room’s electrical consumption. And, unlike common magnetic strip-based energy savers, with SALTO’s ESD, only authorized SALTO key cards will operate the device.

RFID SECURITY AND RELIABILITY
SALTO offers a wide range of RFID cards all based on ISO standards. These include Mifare, Mifare plus, DESfire, DESfire EV1, Mifare Ultralight C.

NFC: A NEW AREA IN HOSPITALITY
Soon all new mobile phones will be NFC-enabled, thereby allowing that phones emulate a guest card and be used as a hotel room key.

MULTI-APPLICATION: MORE SERVICES MORE VALUE
SALTO RFID smart card technology enables guests to enjoy access to multiple services such as the health club, swimming pool, gym, and much more all with one multi-application card.

ENERGETIC PADLOCKS
The SALTO GEO padlock offers all the advantages of a padlock, plus all the benefits of an advanced access control system. Control access to gates, rooms or lockers, know who opened what and when, and cancel cards on the fly.

SOLUTION FOR GLASS DOOR LOCKS
SALTO XS4 locks are also compatible with glass door locks, bringing all the advantages of access control to these specialty doors.
THE EVOLUTION FROM SINGULAR COMPONENTS TO A COMPLETE PLATFORM

The SALTO hotel platform offers the most versatile and complete range of stand-alone, wire-free and wireless electronic access control products on the market, all of which are especially designed for use in the hospitality industry.

Security is always guaranteed by the highest quality standards.

All products use SALTO Virtual Network technology in order to ensure the highest system performance and reliability.

From the beautifully designed AEelement to XS4 electronic escutcheons, locker locks, wall readers, controllers and panic bars, to HAMS software that controls these elements, SALTO delivers the highest quality products to provide value-added security and control solutions to the hospitality industry.
SALTO advanced panic bar devices provide electronic access control for emergency exits.

SALTO wall readers and controllers are the link between the online and the offline world.

AElement
The RFID hotel lock with wireless DNA.

XS4 electronic keypad escutcheons.
For dual authentication. Wireless available.

SALTO XS4 Lockers
SALTO electronic locker locks are designed to provide a high level of security protection and control access to a wide range of lockers, cupboards, display cabinets, boxes, cases and more.

SALTO HAMS software
SALTO HAMS (Hotel Access Management Software) is a powerful, simple-to-use tool that enables hotels to control their entire property from a single PC.
SALTO developed HAMS (Hotel Access Management Software) to enable hotels to easily control all their access and guest management needs with a single, friendly system.

HAMS is suitable for any type of hotel in the hospitality industry, from those that need to control just a small number of rooms, to larger hotels and resorts that need to control hundreds of rooms. HAMS offers a wide range of features and tools that make it easy to control all the offline and online guest room and back-of-house doors throughout a property from one central location.

HAMS is compatible with most property management software, such as Micros Fidelio, New Hotel, Protel, TBC, and others, and can also be used to manage SALTO smart ESDs.

HAMS provides unique advantages that make maintenance and access control-related tasks easier.

**MULTI-WORKSTATION**

Running the same system on different workstations is not a problem.

Management of the access plan should be flexible. This is the reason why HAMS is multi-workstation software. The server database can be connected to different workstations to provide a complete multi-user solution.

**LIVE MONITORING**

Total control of the system in real-time.

SALTO HAMS software enables real-time monitoring not just of battery status or if an update is needed, but also who accessed what door and when, if a door has been left open, intrusion alarms and more. Total control in real-time.

**GUEST OPTIONS**

Customize the guest experience.

Not all guests require the same services and this is why during the check in process, HAMS allows customized guest options with the click of a mouse.

**FULL CONNECTIVITY**

TCP-IP standard protocol for locking device connectivity.

SALTO HAMS uses TCP-IP standard protocol to connect to different devices. The existing Ethernet network can be used for access control, thereby avoiding the need for special wiring.

The use of sub-networks or other advanced features does not pose a problem for SALTO HAMS.

**PMS COMPATIBILITIES**

Hospitality means PMS.

Property Management Systems (PMS) are an important hospitality tool. SALTO HAMS is compatible with 95% of PMS currently on the market.
TECHNICAL FEATURES

- Database can handle:
  - Up to 4 million users.
  - Up to 64,000 doors & lockers.
- Password protected operator's profiles.
- 256 Calendars.
- 256 Time periods.
- 256 Time zones.
- Available with SALTO database engine or MS-SQL Server database compatible.
- Connection to online units through TCP-IP protocols using existing LAN & WAN networks and secured through an encrypted protocol.
- Multi-station capabilities.

SOFTWARE VERSIONS

- HAMS 100 R&W up to 100 users and 4 online doors.
- HAMS 500 R&W up to 500 users and 8 online doors.
- HAMS Excellence R&W up to 4 million users and 16 online doors.
- HAMS Connected R&W up to 4 million users and unlimited online doors.
- HAMS Department Operator up to 4 million users, unlimited online doors and department operator management.

TECHNICAL REQUIREMENTS

- RAM memory: 64 MB (min.), 128 MB (recommended).
- Available Hard Disc space: 50 MB (Aprox. Depending on the database).
- MDAC version 2.1 or higher.
- Processor: Pentium II.
- CD drive.
- USB port.
- MS-SQL Server Express, MS-SQL Server 2005 or MS-SQL Server 2008 (for SALTO SQL data base version).

FREE UPDATES

Stay up-to-date for free.

SALTO continuously adds new features to HAMS. This is why customers who register their SALTO software benefit from free updates, including new features and functionalities.

DESKTOP OPERATORS

Different profiles for different front desk operators.

Not all front desk operators need the same rights or privileges. This is why HAMS enables configurations of different operator profiles and functions with all activity recorded by audit trail, alerting to any unauthorized activity.

SIMPLICITY

The HAMS interface is simple and easy to use.

SALTO HAMS is based on doors, users, groups of users and group access levels so it is quick and easy to make any changes any time.

OPERATORS

Operators have a profile which is password protected for extra security and control.

SALTO HAMS enables the property to create multiple operators and help set up a customized profile for each.
AElement is the new face of RFID hotel security technology.

Easy to use and easy to install, AElement is a stunning piece of design that is packed with SALTO technology.

Developed specifically for the hotel market, it provides a fully-integrated, real-time security solution that allows hotels to combine the entire mix of hospitality needs into one stylish, energy-efficient and reliable wire-free locking system.
TECHNICAL INFORMATION

MAIN FEATURES AND BENEFITS
- Simple offline installation.
- Wire-free stand-alone networked system through SVN technology.
- Locks are connected to the system through the SALTO Virtual Network improving the security and efficiency of the system.
- Available in wireless version for wireless real-time control.
- Wireless ready version allows you to change from offline to wireless providing wireless online system for real time control with no need to hardware.
- Contactless versions compatible with ISO 14.443A, ISO 14.443B and covering a wide range of mainstream RFID brands such as DESFire, Mifare and Mifare Ultralight C allowing multiapplication with third party systems using one card.
- Compatible with DIN standard and ANSI Mortise locks
- The lock can always be opened from the inside (a single action panic feature works in conjunction with the relevant mortise lock).
- Concealed fixing screws for greater security and improved aesthetics.
- Low battery power indication monitored through the SALTO Virtual Network (SVN) also via PPD connection.
- Emergency opening by means of portable programming device (PPD).
- Non volatile memory (memory is not deleted, even without power).
- Locks are equipped with a low consumption real time clock function.
- Firmware upgrade through PPD firmware updater.

AVAILABLE LOCK MODES:
- Standard (locked at all times).
- Office mode (free passage).
- Timed office (automatic locking at end time).
- Automatic opening.
- Automatic Opening + Office.
- Toggle (present card to lock, present card to unlock).
- Timed toggle (automatic locking at end time).

TECHNICAL DATA

Current required:
- Power supply: 3 alkaline batteries LR03 AAA 1.5V. optional lithium batteries FR03.

Number of openings:
- Contactless versions: from 50,000 on 1 set of batteries, depending on the RFID technology.

Environmental conditions:
- External escutcheon: -20ºC / 70ºC
- Internal escutcheon: -20ºC / 70ºC (with Lithium batteries).
- Mortise lock compatibility:
  - European Locks (DIN 18250).
  - ANSI Mortise Locks.

Certifications:
- EI 60 compliant.

FINISHES

- White reader / Black reader
  - PVD Polished brass base (PP)
  - PVD Antique brass base (LA)
  - PVD Satin brass base (PM)
  - Bright chrome base (IP)
  - Satin chrome base (IM)

DIMENSIONS

HANDLES

E HANDLE  G HANDLE  S HANDLE  T HANDLE  O HANDLE  L HANDLE  J HANDLE  W HANDLE  U HANDLE

OLIVARI

Olivari handles are the perfect interpretation of form and design.

Their classical elegance and modern lines form sublime shapes that are known the world over for their eclecticism and style. Crafted with passion, they are the perfect choice when distinctive design flair is needed.
SALTO XS4 ELECTRONIC ESCUTCHEONS RANGE

ELECTRONIC LOCKS

SALTO offers a wide range of electronic escutcheons and provides solutions for virtually every type of door.

All XS4 locks have SALTO Virtual Network capabilities and can be integrated into the entire SALTO platform. SALTO locks can also be configured as wireless locks, thereby adding wireless online capabilities to each door. SALTO software can follow such a configuration, adding new features to control the property and provide the benefits of doors communicating in real-time.

A perfect solution to control both back-of-house and guest room doors.
 TECHNICAL INFORMATION

MAIN FEATURES AND BENEFITS
- Simple offline installation is possible on any type of door, including those with narrow frames.
- Ability to retrofit to existing hotel locks.
- Virtual network capable through SALTO Virtual Network technology.
- Wireless real-time online capabilities through the SALTO wireless network*.
- Door status detector to monitor intrusions or door left open status (wireless escutcheons only).
- User on card audit trailing capability for audit trailing via the SALTO Virtual Network (SVN).
- Contactless versions compatible with ISO 14443A, ISO 14443B and ISO 15693 (Vicinity) and covering a wide range of mainstream RFID brands such as DESFire, DESFireEV1, Mifare, Mifare plus, Ultralight C, Logic, HID iClass, Inside Picopass and SKIDATA allowing multi-application with third party systems using one card.
- All communications between the credential and the electronic lock are encrypted and secure.
- Choice of 40mm narrow or 67mm wide body handle set.
- Compatible with 90% of mortise locks, reducing cost of installation.
- The lock can always be opened from the inside (a single action panic feature works in conjunction with the relevant mortise lock).
- Available in 7mm, 8mm, 9mm (DIN 18273 certified) and split spindles.
- High security protection via high resistance, hardened anti-drill plates to protect wiring and reader area.
- Concealed fixing screws for greater security and improved aesthetics.
- Low battery power indication monitored through the SALTO Virtual Network (SVN) as low battery status information is written onto credentials and delivered to the software. Also readings can be taken at the lock and passed to the software via PPD connection.
- Emergency opening via portable programming device (PPD).
- Office mode (“passage” setting) available for leaving doors in free access mode.
- Available with mechanical cylinder override with audit trail facility in some models.
- DDA (Disability Discrimination Act) compliant depending on handle type.

TECHNICAL DATA

Current required:
- XS4-40 narrow version: 3 alkaline batteries - LR03 - AAA 1,5V
- Optional 3 Lithium batteries FR03 - AAA 1,5V (see environmental conditions).
- XS4-67 wide version: 3 alkaline batteries - LR6 - AA batteries FR6 – AA 1,5V (see environmental conditions).
- Number of openings:
- Contactless versions: from 40000 to 70000 on 1 set of batteries, depending on the RFID technology.

Environmental conditions:
- External escutcheon: -20ºC / 70ºC.
- Internal escutcheon: -20ºC / 70ºC (with Lithium batteries).

Certifications:
- Highest EN standards.
- IP65 Protection rating.
- UL 10C compliant (180 min steel doors, 90 min wooden doors).
- EN1634-2 EI 120 Fire Resistant.

AVAILABLE LOCK MODES
- Standard (locked at all times).
- Office mode (free passage).
- Timed office (automatic locking at end time).
- Automatic opening (6 pairs of “hands free” timed lock and unlocks per day with holidays).
- Toggle (present card to lock, present card to unlock).
- Timed toggle (present card to lock, present card to unlock depending on schedules).

DIMENSIONS

FINISHES

Stainless steel finishes
- Satin Stainless Steel (IM)
- Polished Stainless Steel (IP)

Brass finishes
- Antique Brass (A)
- Satin Brass PVD (PM)
- Polished Brass PVD (PP)

RAL colours
- Black
- White

HANDLES
SALTO GEO is more than just an electronic cylinder; it is a new dimension in stand-alone, key-free access control technology.

As part of the comprehensive SALTO access control platform, the SALTO GEO electronic cylinder is available in standard model, half cylinder, double cylinder, Australian, Scandinavian, UK, ANSI and RIM formats, as well as a padlock version.

GEO is also suitable for outdoor applications and is IP 66 rated.*

* Depending on the model
**TECHNICAL INFORMATION**

### MAIN FEATURES AND BENEFITS

- Simple installation is possible on any type of door, including those with narrow frames.
- Virtual network capable through SALTO Virtual Network technology.
- User on card audit trial capability via the SALTO Virtual Network (SVN). Contactless versions compatible with ISO 14.443A, ISO 14.443B and covering a wide range of mainstream RFID brands such as DESfire, DESfire EV1, Mifare, Mifare plus, Ultralight C, HID iClass, Inside Picopass and SKIDATA allowing multi-application with third party systems using one card*.
- All communications between the credential and the electronic cylinder are encrypted and secure.
- Choice of different cam and cylinder profiles: Euro profile, and UK oval, Mortise cylinders, Australian oval profile, RIM cylinders.
- Different finishes: Satin chrome, polished chrome, polished brass, satin brass, black finish and Biocote finish.
- High security via high resistance, hardened anti-drill protection.
- Concealed fixing screws for greater security and improved aesthetics.
- Low battery power indication monitored through the SALTO Virtual Network (SVN) as low battery status information is written onto credentials and passed to the software. Also readings can be taken at the lock and passed to the software via PPD connection.
- Dual colour LED (green / red) to indicate access authorization.
- Emergency opening by means of portable programming device (PPD).
- Firmware upgradable through PPD.

### TECHNICAL DATA

**Current required:**
- 1 Lithium standard battery CR2.

**Number of openings:**
- Contactless versions: from 30,000 to 50,000 on 1 battery, depending on the RFID technology.

**Environmental conditions:**
- -20ºC / 65ºC.
- Certifications:
  - IP 66 protection rating (depending on the model).
  - EN1634 - E190 fire resistant.

**Lock modes available:**
- Standard (locked at all times).
- Automatic opening (8 pairs of “hands free” timed lock and unlocks per day with holidays).
- Toggle (present card to lock, present card to unlock).

### MODELS

- **SALTO GEO**
  - European half cylinder
  - European cylinder with inside thumbturn
  - European double cylinder

- **SALTO GEO**
  - RIM US cylinder
  - Mortise cylinder
  - Scandinavian profile cylinder
  - Padlock

### FINISHES

- **CPB**
  - Polished chrome
- **CSB**
  - Satin chrome
- **PPB**
  - Polished bright brass type (PVD)
- **PMB**
  - Satin brass type (PVD)
- **NEB**
- **BCB**
SALTO peripheral products offer a great solution for those access points where online connectivity is needed or where interaction with other systems or electric-powered devices such as elevators, roller shutter doors or barriers is required.

These online points are also used to power and reinforce the potential of the SALTO Virtual Network.

SALTO controllers and devices use a protected and encrypted TCP-IP protocol connection in order to simplify installation by using the existing Ethernet network for access control.

A wide range of readers is offered by SALTO for almost any kind of situation, including modular wall readers compatible with electric boxes, mullion readers for narrow profile frames, pedestals, etc.

Online points are also used to power and reinforce the potential of the SALTO Virtual Network. Through these online hotspots, user credentials are updated with the latest changes in the access plan in order to update users’ access rights, inform the system about battery status of any offline device visited, distribute the latest blacklist, and download users’ access audit trail as required for additional security management.

SALTO also offers energy saving devices that reduce electrical consumption by deactivating equipment that is not in use, while simultaneously sending information about the room in real-time through the online connected device.
ENERGY SAVING DEVICES (ESD)

SALTO in-room Energy Saving Devices (ESD) help save up to 65% of a hotel room's electrical consumption and unlike common magnetic strip strip-based energy savers, only authorized SALTO key cards activate lighting systems. Other cards such as frequent flyer, business cards, credit cards, or even SALTO cards belonging to other rooms won't activate the system.

ESD is also available in a connected online version that indicates in real-time the presence of guests or staff in a room, with the information passed directly into the hotel PC. When a guest enters the room and inserts his card into the ESD, it switches on all electrical equipment. When staff enters the room for cleaning or maintenance, the ESD recognizes his card.

TECHNICAL INFORMATION

MAIN FEATURES AND BENEFITS

- Offline or online door controllers depending on the model.
- Managed by HAMS software.
- Virtual Network capable through SALTO Virtual Network technology.
- User on card audit trailing capability for audit trailing via the SALTO Virtual Network (SVN).
- All communications between the wall reader and the door controller and between the door controller and the PC are secured and encrypted for a higher security level.
- Alarm input.
- User on card audit trailing via SALTO Virtual Network in the case of offline units.
- Compatible with SALTO relay extension board (EB5008) controlling up to 128 relay outputs suitable for elevators, etc.

TECHNICAL DATA

- Input voltage: 85-265 Volts AC
- Consumption: 200 mw in rest mode, 1.8 watts when activated.
- Relay power cut: 10A.
- Max. section for power and relays contacts connector: Stranded wire section: 12 AWG (2,5mm²). Strip length: 4-5mm.
- Max. section for windows detector connector: Stranded wire section: 16 AWG (0,5mm²). Strip length: 4-5mm.

CONNECTED VERSION:

- Real-time ESD monitoring through the software.
- Real-time ESD audit trailing. The list of users that have activated the ESD is automatically downloaded to the PC.
- Connected by bus RS485. Last ESD of the series must be connected to a SALTO ON LINE control Unit (CU50EN or CU50ENSVN).
- Max. Number of ESD connected per IP door controller: 40.

* Estimation based on SALTO surveys on energy management.
SALTO reserves the rights to modify technical specifications, designs, and performance without notice.

The paper used is FSC certified.