

i-volution

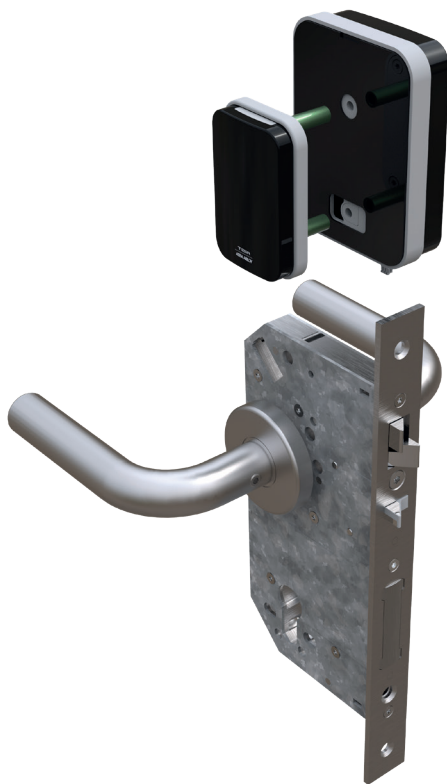
SMARTair® Electronic Lock

Euro profile
















Experience a safer
and more open world

SMARTair *i-volution* combines the advanced access control features of the electronic escutcheon with the intelligence and superior security of the electromechanical lock. It includes the external reader module, the internal control and battery module, and the battery powered electromechanical mortise lock. The three components are always together supplied. The handle must be added separately. In case of need, a mechanical cylinder can be installed, for mechanical emergency openings.

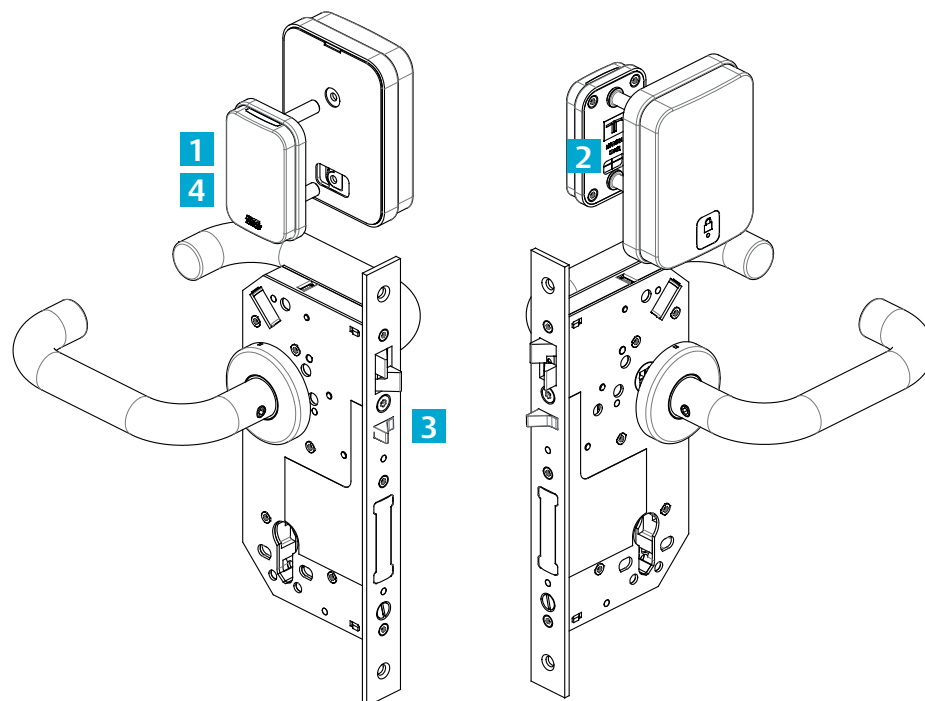


Technical data - SMARTair *i-volution*

	Door profiles	Suitable for wooden doors
	Traffic volume	Medium to high
	Exterior usage	IP56 (Extreme version) Up to 85% humidity. From -20°C to +70°C (external). From 0°C to +50°C (internal)
	Installation	Medium retrofit. Easy installation without any wiring
	Power supply	Batteries from 80.000 to 105.000 cycles depending on the management system. Max. 3 years standby (depending on cycles per day)
	Batteries	Three LR03 AAA 1,5V alkaline batteries
	Multi-authentication	No. Only RFID
	Certifications	CE (EMC, R&TTE), ROHS, REACH, WEE, EN14846 and EN12209
	RFID technologies	13,56MHz Read & Write technologies. MIFARE Classic
	Compatible mobile solutions	 Openow™  TESA SMARTair (only with WIRELESS system)
	System management upgradability	Compatible with the following SMARTair systems: <ul style="list-style-type: none"> · Offline/Update on card · Offline/Update on card + Openow ->Includes the Openow module · Wireless + Openow ->Includes the WIR + Openow module There is a firmware per system SMARTair Locks are scalable: <ul style="list-style-type: none"> · From Offline -> Wireless + Openow. · Just adding the necessary Openow or WIR + Openow module and changing the firmware.

Electronic Technical Characteristics

The following are the main characteristics for the three components: reader module, control and battery module and the electromechanical mortise lock.



1 Reader Module

- 13,56MHz RFID Technology: MIFARE Classic (or Ultralight).
- Activation mode: The electronic escutcheon will wake up just by approaching the credential. Without the need to make any previous action.
- Reading distance: 2-4cm. Given by the identification technology.
- Warning LED: Blue, green or red lights for different warning actions: granted access, access denied, low battery level, etc.
- Buzzer to confirm the signal.
- Connection to the programming device: Through a special cable with three pins. Necessary to initialize the lock and to make emergency openings (in case of low battery level and when there is not mechanical key override).

2 Control unit and battery module

- Non-volatile memory.
- Up to 3.000 users and 3.000 events.
- Real time clock and calendar. Up to 30 time zones with five different periods during the day. Weekdays and weekends automatically recognized. 365 days calendar to define holidays. DST's automatically updated through the calendar.
- Battery module: Easy battery change. Maintains clock and calendar for 5 minutes without batteries. The battery status reported on every event or once per day if no events happen.
- **Operation modes**
 - Possibility to create state tables in the software, to define automatic changes in the doors (during the day) of the following operation modes:
 - Passage mode: The door is open. This operation mode can be established automatically or manually by authorized users.
 - First user: The door is closed until the first user with authorized access opens the door. After that

operation, the door will remain in passage mode (open).

- Standard: The door is closed and a user with authorized access must approach its credential to open the door.
- Double user. The door is closed and two users with authorized access must approach their credentials to open the door.
- **Special features**
 - Standard or ADA users. Standard opening time from one to 15 seconds. ADDA users will have double time.
 - High traffic doors: for unlimited number of users.
 - Electronic privacy with internal button (to deny access to open the door when a user is inside and has activated the electronic privacy).
 - Privacy overrides passage (optional).

3 Electromechanical mortise lock

- It includes the battery operated electromechanical clutch. Free wheeling external handle when the door is closed.
- Mechanical key override detection (if a mechanical cylinder is installed).
- Door position: events reported when the door is left opened, door incorrectly closed, intrusion, Etc.

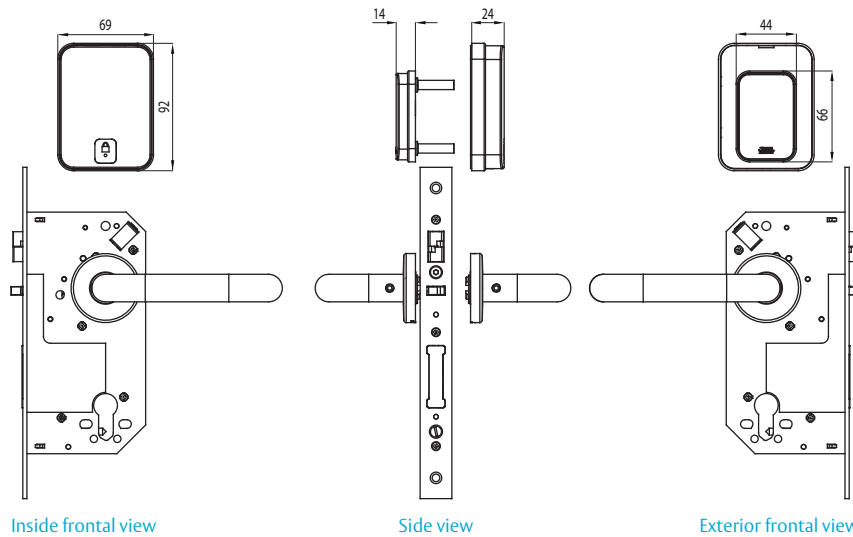
4 Mobile solutions (Openow/Remote TESA SMARTair App)

For mobile phone solutions and wireless system, the electronic escutcheon MUST include one of the following RF modules:

- Openow module: for offline and update on card systems with Openow functionality.
- Wireless + Openow module: for wireless system with Openow and/or remote TESA SMARTair App functionality.

The RF module will communicate with the wireless HUB.

Electromechanical mortise lock Euro profile mortise lock



- 85mm distance between axes.
- Backset 50mm / 23mm Rounded Faceplate.
- 8mm spindle.
- 2,54mm deadbolt.

- Automatic deadbolt projection.
- Panic function: the internal handle always removes both latch and deadbolt.
- Door width from 30mm to 110mm.

Mechanical handle

Compatible with any DIN standard handle.

Mechanical cylinder

Compatible with any euro profile cylinder.

Handles



Finishes

Readers and ring finishes



ASSA ABLOY is the global leader in door opening solutions, dedicated to satisfying end-user needs for security, safety and convenience

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