



ASSA ABLOY Aperio® Technical Catalogue

ASSA ABLOY
Opening Solutions

Experience a safer
and more open world



Aperio is part of ASSA ABLOY's Digital Access Solutions suite

Make your access ready for what's ahead

We help you digitalize and future-proof your buildings, meeting your individual needs and supporting your move from the mechanical to the digital world. We are experts in access.

With us, you digitalize with confidence.

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Expand your new or existing access control system without wiring doors





Integrate more doors into your existing access control system by adding Aperio battery-powered locks

Installing traditional access control doors is costly due to extensive wiring requirements, limiting security coverage to high-priority doors. Other doors retain mechanical locks, lacking monitoring and management capabilities. A lost master key poses a significant security risk. Aperio technology offers a solution: wirelessly equipping doors with integrated RFID and mobile readers, seamlessly integrating them into your access control system. This enhances control, adapts to organizational changes, and streamlines security management.

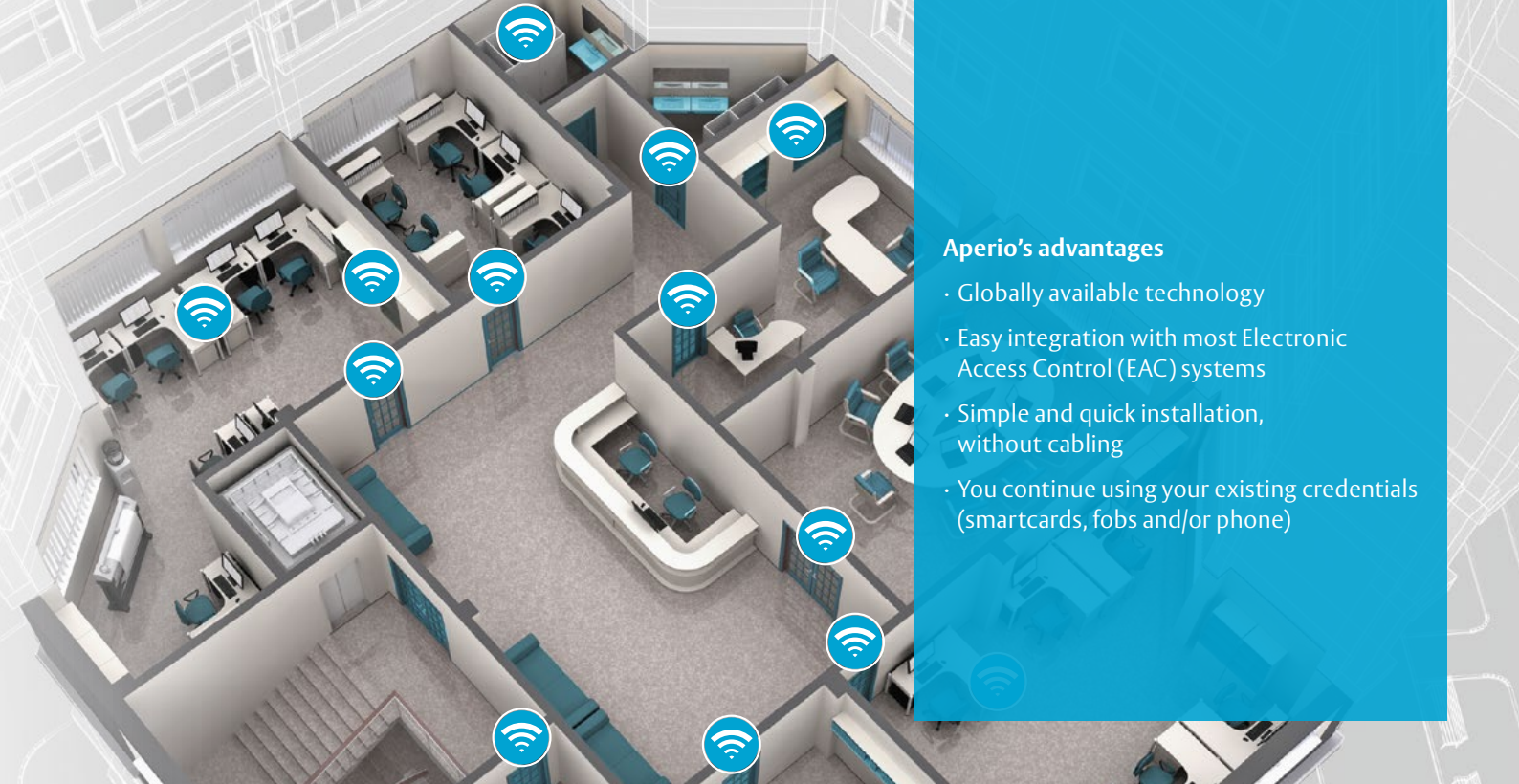
Users carry a single credential (RFID, mobile, wearable) for all access needs, simplifying the process.

Aperio product overview

Whatever your access control needs, Aperio wireless devices have the capability to be fully integrated with your existing electronic access management systems, helping boost your security.

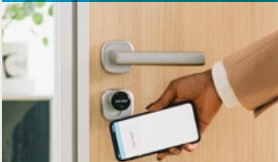



	High Security*** Door	Medium to High Security Door	Medium Security Door	Standard to Medium Security Door
				
	L100	E100 Premium	E100	H100
Device	Lock with RFID- and NFC-reader	Escutcheon with RFID- and NFC/BLE-reader	Escutcheon with RFID- and NFC/BLE-reader	Handle with RFID- and NFC/BLE-reader
Usage	e.g. Entrance, Transit	e.g. Transit, Offices, Meeting (interior)	e.g. Transit, Offices, Meeting (interior)	e.g. Offices, Meeting (interior)
Ease of installation	Interconnecting cables. Standard lockcase for EURO DIN, SCAN and FIN	Minimal drilling, interconnecting cable	Minimal or no drilling, interconnecting cable	No extra drilling for standard lockcases, no cabling required
Power	Battery: 65 openings per day for 50 months	Battery: 30 openings per day for 50 months*	Battery: 30 openings per day for 50 months*	Battery: 30 openings per day for 50 months
Multi-authentication	Yes: PINpad & Reader	Yes: PINpad & Reader	Yes: PINpad & Reader	No
Credentials	RFID credentials Mobile credentials (NFC)	RFID credentials** Mobile credentials (NFC/BLE)	RFID credentials** Mobile credentials (NFC/BLE)	RFID credentials Mobile credentials (NFC/BLE)
Status information	<ul style="list-style-type: none">• Door position (open/closed)• Bolt position (secured/unsecured)• Mechanical key override (avoid alarm)• Handle position (REX)• Tamper detection	Internal handle use detection (request to exit, escape & return)	Internal handle use detection (request to exit, escape & return)	
Accessories	Reader plates, spindles, strike plates		Different handle models	U-handle available Matching mechanical hardware
Certification	CE, UKCA, Fire, EN179, EN14846, EN1125 (EURO DIN)	CE, UKCA, EN179, Fire EN1634, DIN18273	CE, UKCA, EN179, Fire EN1634 *	CE, UKCA, Fire EN1634 *
Feedback	LED/Buzzer	LED/Buzzer	LED/Buzzer	LED
Smart Credential Cache	Up to 1000 users can be granted access even if the EAC is temporarily down			
Operation	All products can run in online and offline (OSS included) mode			

4 *Not approved for fire and smoke protection doors in Germany according to DIN 18273.



Aperio's advantages

- Globally available technology
- Easy integration with most Electronic Access Control (EAC) systems
- Simple and quick installation, without cabling
- You continue using your existing credentials (smartcards, fobs and/or phone)

Standard to Medium Security Door	Medium security, high traffic doors	Medium Security Cabinet Door	Standard to Medium Security Opening
			
C100	DR100	KL100	P100
Cylinder with RFID- and NFC/BLE-reader	Wall reader with secure relays RFID- and NFC/BLE-enabled	Cabinet lock with RFID- and NFC/BLE-reader	Padlock with RFID- and NFC/BLE-reader
e.g. Offices, Meeting (interior), Cabinets (special version for server cabinets)	Entrance doors, turnstiles, overhead doors, loading bay doors, roof access	Lockers, Drawers, Cupboards, Cabinets (interior)	Toolboxes, Storage cages, containers and other non-standard openings
No drilling, no cabling	Minimal drilling, interconnecting cable	18/22 or 16/19 mm standard cutout required	No drilling, no cabling
Battery: 10 openings per day for 27 months*	Power: 12 - 24 VDC	Battery: 25 openings per day for 106 months	Battery: 10 openings per day for 27 months*
No	No	No	No
RFID credentials** Mobile credentials (NFC/BLE)	RFID credentials Mobile credentials (NFC/BLE)	RFID credentials Mobile credentials (NFC/BLE)	RFID credentials Mobile credentials (NFC/BLE)
	<ul style="list-style-type: none"> • Tamper detection • Door position (open/closed) • Request to exit input 		
Rubber cover sleeve	No	Different cams	Chain
CE, UKCA, EN 15684:2012 (16B0AF30), fire EN1634, door up to T90	CE, UKCA	CE, UKCA	CE, UKCA
LED	LED	LED	LED
Up to 1000 users can be granted access even if the EAC is temporarily down			
All products can run in online and offline (OSS included) mode			



Communication hub

Control up to 64 doors with the Aperio communication hub for indoor use. Easy and cost-effective to install, the hub is the nexus between the Aperio devices and the EAC system.

Communication happens in real time.

For more information, please refer to page 79

Aperio DR100 and P100 available in the future

- * Except LEGIC
- ** Also available with LEGIC technology
- *** Security level refers to the mechanical security of the door and depends on the Aperio device but also on any additional security devices at the door and the door itself

Aperio is ready for both offline and online integration

Aperio Online integration: Door monitoring in real time

Aperio Online integrations offer real-time lock-to-system, instant audit trails and remote locking/unlocking function

Online integration puts you in total control of access and equips you to react quickly to any emergency

When integrated online, Aperio locks connect with your system via a range of different Communication Hubs to control up to 64 doors within a range of 25 metres

Online Aperio locks are compatible with all standard RFID technologies. Online integration provides the option to cache 1,000 valid credentials

Aperio Offline integration: Access rights on card via updater

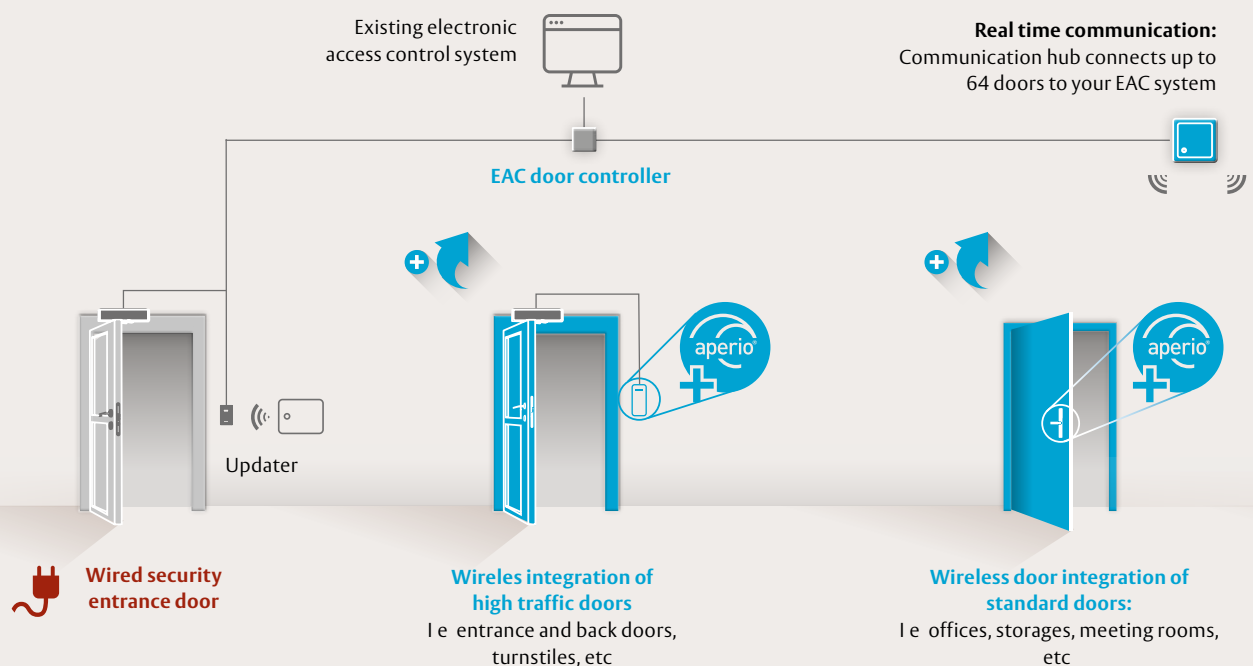
Aperio Offline locks are installed wire-free and integrate seamlessly with a new or existing access control system. Individual lock and user permissions updates may be completed remotely or locally, via the update readers

For maximum compatibility with new and existing systems, Aperio Offline locks accept most RFID technologies, incorporating audit trail support. With Aperio, you can also combine Offline and Online doors within the same installation

Aperio Offline locks support both ASSA ABLOY Offline and OSS Standard Offline protocols, guaranteeing interoperability with a broad range of access systems

Aperio wireless access control technology adapts to your security needs

All
integrations
Online and/or
Offline





Check out
successful Aperio
integrations
around the world



Make non-standard openings part of your EAC system

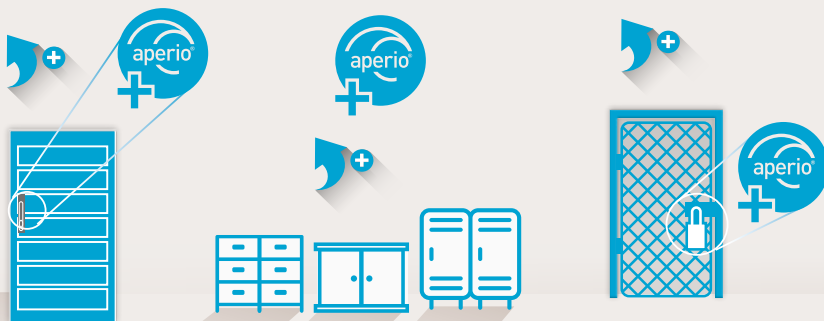
Continue using your credentials



For comprehensive details
on credential technologies,
consult the product
datasheet pages



**Upgrade to mobile credentials
whenever you are ready:**
Aperio works with RFID and
mobile technologies simultaneously



Wireless server rack
integration

Wireless cabinet
integration

Gates, cages and other
non-standard openings

Extend your favourite access control features to more doors

Aperio has integration in its DNA, making it easy to extend the reach and capacity of your access control without wiring. Doors previously secured with mechanical locking can now be integrated into an access control system and unlocked with the same credentials.

Aperio-equipped access points are managed from the existing system software interface. Over 130 access control manufacturers globally have already integrated battery-powered Aperio locks to work seamlessly with their system, ensuring you benefit from all supported EAC features.



Multi-RFID technology

The ability to use different RFID card technologies within the same system.

Aperio devices supporting this feature

The entire Aperio product family



Online/Offline transition

Seamless transition between the two modes without the need to replace or modify locks.

Aperio devices supporting this feature

The entire Aperio product family



Unlimited users

There is no limit to the number of users who can open a door. This number is set by the EAC system.

Aperio devices supporting this feature

The entire Aperio product family



Remote opening

The remote opening function offers the ability to remotely lock or unlock a door. It allows authorized individuals to grant access to a secured area without physically being present at the entry point.

Aperio devices supporting this feature

The entire Aperio product family



Emergency code

Emergency (or Duress) code is a security feature designed to protect individuals in potentially dangerous situations

With Emergency Code enabled, a silent hold-up alarm triggers in the security centre if, in a threatening situation, a credential-holder uses their access card along with an attack code instead of her/his own PIN

Aperio devices supporting this feature

Aperio PINpad devices:
E100 wireless escutcheon and
L100 wireless lock

Use Cases

Emergency situations



Operation during EAC breakdown

Aperio offers several smart credential handling options to enable access in case of a communications failure with the access control system

Up to 1000 users can be granted access even if the EAC is temporarily down

Aperio devices supporting this feature

The entire Aperio product family

Use Cases

Retail stores or warehouses,
medication storage rooms or
laboratories, server rooms or
equipment racks



Four eyes rule

The 'four eyes rule' is a practice that requires the presence of at least two authorized users with two different credentials each to unlock a door. It can be a combination of a card/phone + PIN or two cards/phones. The number of users and number/combination of credentials is configured by the EAC system.

Aperio devices supporting this feature

The entire Aperio product family

Use Cases

Sensitive or high-security environments
When access to critical areas, systems, or data must be reviewed and approved by a second authorized person



Escape and return

This feature allows a user to temporarily leave a secure area or room and then return without having to repeat the full authentication process. This feature is often implemented to provide convenience to authorized individuals who need to briefly exit and re-enter a restricted area without compromising security.

Aperio devices supporting this feature

E100 wireless escutcheon and
L100 wireless lock

Use Cases

Emergency situations,
short breaks



Electronic privacy

Also known as 'Do Not Disturb', this feature restricts access to an area. When the electronic privacy button is pressed or enabled, it allows the user to restrict access into the area. When engaged, the EAC may still grant access to specific users.

Aperio devices supporting this feature

E100 wireless escutcheon

Use Cases

Meeting rooms,
clothes changing rooms,
dorm rooms

Everybody benefits from Aperio Wireless Access Control

Building access control impacts multiple stages and stakeholders

Business owners, security staff, and facility managers

have an extensive portfolio from which to select the optimal digital access solution that meets individual requirements, ensuring low energy consumption and minimal maintenance, plus optional services when needed



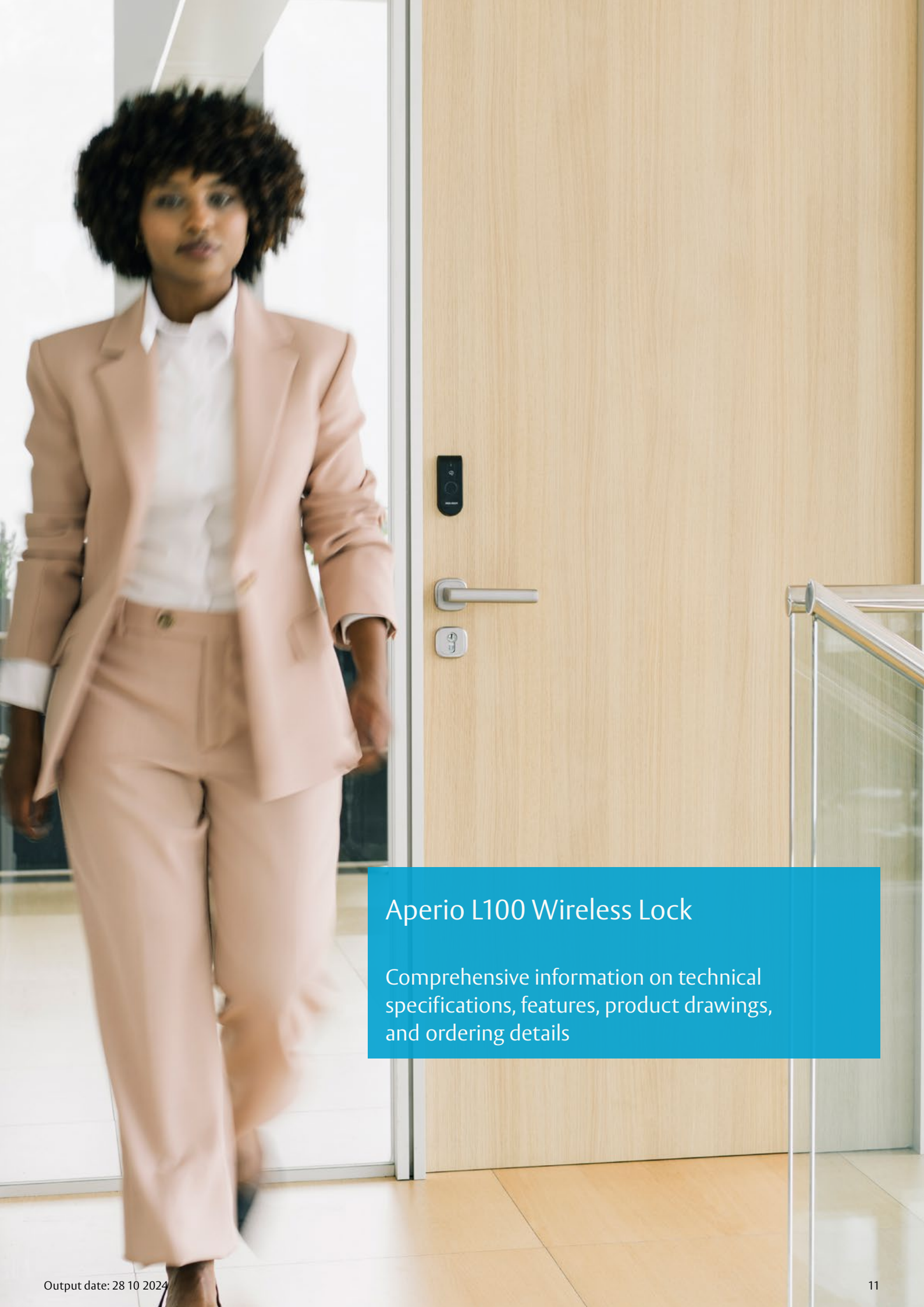
OEMs, system integrators, and installers gain from our top-tier technologies for new installations or digital access upgrades, unparalleled standards expertise, and the broadest selection of wireless access hardware



Users benefit from the convenience and safety provided by our digital access solutions every day, enhancing their experience in the building from installation through to daily use



For architects and specifiers, integrating modern design aesthetics and green building practices is a key concern from the design phase. Aperio devices can help them achieve their goals



Aperio L100 Wireless Lock

Comprehensive information on technical specifications, features, product drawings, and ordering details

Aperio® L100 Wireless Lock Euro profile

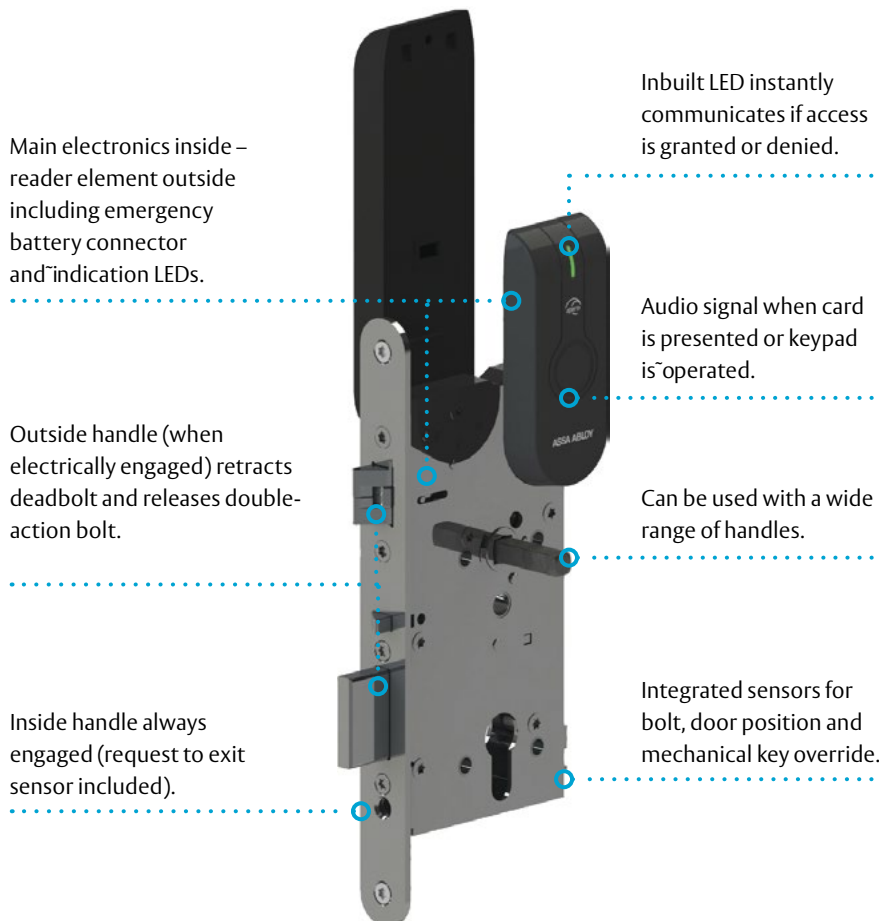
Technical information

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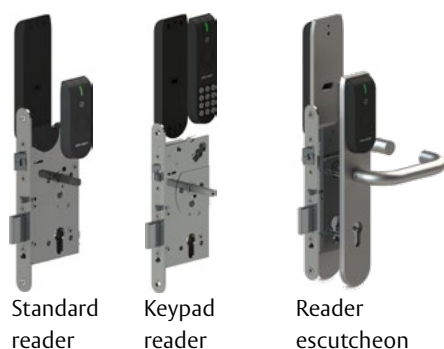
Experience a safer
and more open world

The cost-effective solution for doors with demanding access control requirements

The ASSA ABLOY Aperio L100 is the most complete electronic wireless security lock on the market. It works with almost any system, via Online, Offline or OSS-standard offline integration.



Versions:



Lock profile:



Easy integration

Aperio L100 works seamlessly with access control systems integrated with Aperio via the AADP protocol or Wiegand hub. No database integration required.



Highly effective safety and security protection

Reader: IP54 outside part, IP44 inside part.
Lock case: CE, UKCA, EN 179, EN 1125, EN 14846.



Multi-authentication

L100 adds an extra layer of security to your opening with the Keypad version (only supported by Aperio online).



Monitoring

Integrated sensors for door (open/closed); bolt position (locked/unlocked) and key mechanical override detection. Handle status detection (request to exit).



Convenience

Aperio L100 reads industry-leading RFID credentials, as well as mobile (NFC).




Aperio L100 Wireless Lock Euro profile

Technical information



Documents
and certificates

Technical data and features

	Authentication	CARD/Mobile, PIN, CARD/Mobile & PIN combined
	Code	PIN code managed by the access control system
	RFID technologies	iCLASS, iCLASS SE, iCLASS Seos, MIFARE Classic, Mifare Classic SE, Mifare Ultralight, Mifare Plus, Mifare DESFire 0.6, Mifare DESFire EV1, Mifare DESFire EV2, Mifare DESFire EV3 (EV2 and EV3 only in Legacy mode), Mifare DESFire SE, PicoPass, ISO 14443A UID, ISO 14443B UID, ISO 15693 UID
	RFID reading	UID / Sector / Block / Application / File / Depending on the RFID technology
	RFID reading range	Up to 4 cm
	Mobile technology	NFC
	Approvals	CE, UKCA, EN 14846, EN 179 and EN 1125 lock. Fire (AL560: WF assessment report No. 383734 and Certifire CF5920)
	Dimensions	Standard: Lock: 168,5 × 16,5 × 88/93/98 (H × W × D) Reader inside: 167,8 × 48 × 20 (H × W × D) Reader outside: 101,8 × 43,7 × 15 (H × W × D)
	Handle	Handle sold separately. With the optional Escutcheon Reader, U-shape handle available
	Surface	Reader: Plastic Reader Escutcheon: Stainless steel Faceplate for the lock: Stainless steel
	Door profile	Standard or narrow profile
	DIN direction	Left / right convertible
	Backset	Standard doors: 55 mm, 60 mm, 65 mm Narrow doors: 30 mm, 35 mm, 40mm, 45mm
	Distance	Standard doors: 72 mm Narrow doors: 92 mm, spindle 8/9 mm
	Spindle	See feature: Door leaf thickness
	Faceplate	24 mm
	Door leaf thickness	Spindle length – Door thickness in (): 47/50 (40-54 mm); 57/50 (47-66 mm); 67/60 (61-80 mm); 74/50 (66-80 mm); 120/120 (88-100 mm); 80/50 (70-87 mm)
	Battery	2 × Lithium AA (FR6)
	Battery life (based on reader type)	65 openings per day for 50 months
	Emergency power	Via power supply connector
	Radio standard	IEEE 802.15.4 (2.4 GHz)
	Encryption (radio communication)	AES 128 bits
	Distance between device and hub	Up to 25m depending on the building environment
	Class of protection	IP 44 inside* / IP 54 outside**
	Operating temperature range	10°C to 65°C inside / -40°C to 65°C outside
	Relative humidity	< 85% (condensation-free)
	Status	LED (red/green/orange) and buzzer
	Door sensor information	Door position (open/closed); Bolt position (secured/unsecured); Mechanical key override (avoid alarm); Handle position (REX); Tamper detection
	Communication interfaces	Communication via radio (USB dongle) or micro-USB cable (accessory)
	Offline and Online operation modes	Aperio Online; Aperio Offline; OSS-standard Offline



It includes:

- 1 lock case with 2 batteries (Lithium AA FR6)
- Reader and main electronics
- Screws, flexible cables
- Spindles have to be ordered separately
- Manual including instructions for installation and drilling



Communicates with:

- RS485 Communication Hub
- Aperio IP Communication Hub
- Wiegand Interface (standard and advanced versions) Communication Hub



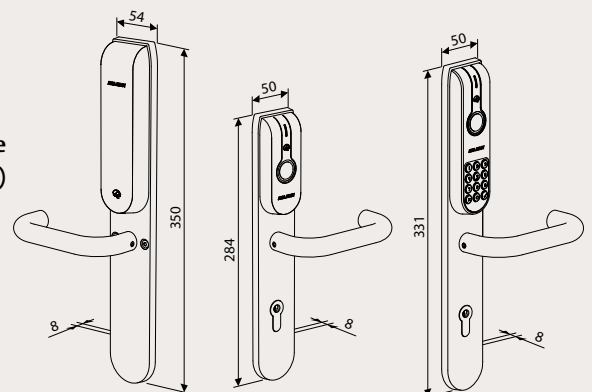
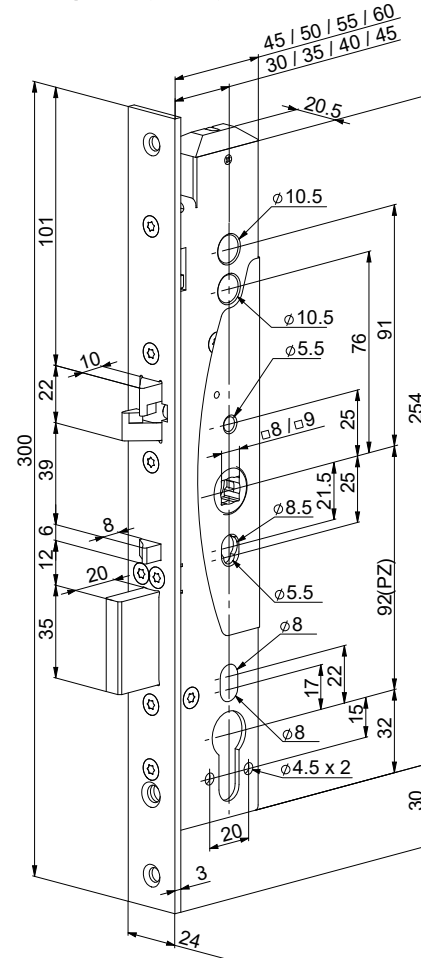
Smart Credential Handling:

Up to 1000 users can be granted access even if the EAC is temporarily down.

* L100 is recommended for use indoors. However, it can be placed in a door facing outdoors (but the battery pack must be always in the indoor part).

** Harsh, outdoor environments may affect product operation (excessive humidity, salt, extreme temperatures).

Technical information

[illegible]

Aperio L100 Wireless Lock Euro profile

Ordering information

DIN range lock cases for standard door and Narrow profile door



Standard reader

Ordering number	Door	Backset in mm	Certification
AL560_500150	Standard	55	-
AL560_500450	Standard	55	SKG**
AL560_500160	Standard	60	-
AL560_500460	Standard	60	SKG**
AL560_500170	Standard	65	-
AL560_500470	Standard	65	SKG**
AL460_500100	Narrow profile	30	-
AL460_500400	Narrow profile	30	SKG**
AL460_500110	Narrow profile	35	-
AL460_500410	Narrow profile	35	SKG**
AL460_500120	Narrow profile	40	-
AL460_500130	Narrow profile	45	-



PINpad reader

Ordering number	Door	Backset in mm	Certification
AL560_501150	Standard	55	-
AL560_501450	Standard	55	SKG**
AL560_501160	Standard	60	-
AL560_501460	Standard	60	SKG**
AL560_501170	Standard	65	-
AL560_501470	Standard	65	SKG**
AL460_501100	Narrow profile	30	-
AL460_501400	Narrow profile	30	SKG**
AL460_501110	Narrow profile	35	-
AL460_501410	Narrow profile	35	SKG**
AL460_501120	Narrow profile	40	-
AL460_501130	Narrow profile	45	-

Accessories

L100 may optionally be equipped with reader plates for easy installation e.g. in fire doors where no extra drilling to the door is allowed



Reader plate for L100 with standard reader
Ordering number: 953032
The plate includes handle
Available only for standard doors



Reader plate for L100 with PINpad reader
Ordering number: 953035
The plate includes handle
Available only for standard doors

Aperio® L100

Wireless Lock

Scandinavian profile

Technical information

ASSA ABLOY
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Experience a safer
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The cost-effective solution for doors with demanding access control requirements

The ASSA ABLOY Aperio L100 is the most complete electronic wireless security lock on the market. It works with almost any system, via Online, Offline or OSS-standard offline integration.

Main electronics inside –
reader element outside
including emergency
battery connector
and indication LEDs.

Inbuilt LED instantly
communicates if access
is granted or denied.

Audio signal when card
is presented or keypad
is operated.

Integrated sensors for
bolt, door position and
mechanical key override.

Outside handle (when
electrically engaged) retracts
latch/bolt.

Inside handle always
engaged (request to exit
sensor included).

Can be used with a wide
range of handles.

Versions:



Standard
reader



Keypad
reader



Reader
escutcheon



Standard



Narrow

Lock profile:



Easy integration

Aperio L100 works seamlessly with access control systems integrated with Aperio via the AADP protocol or Wiegand hub. No database integration required.



Highly effective safety and security protection

Reader: IP54 outside part, IP44 inside part.
Lock case: CE, EN 179, EN14846.



Multi-authentication

L100 adds an extra layer of security to your opening with the Keypad version (only supported by Aperio online).



Monitoring

Integrated sensors for door (open/closed);
bolt position (locked/unlocked).
Handle status detection (request to exit).



Convenience

Aperio L100 reads industry-leading
RFID credentials, as well as mobile (NFC).

Aperio L100 Wireless Lock Scandinavian profile

Technical information



Documents
and certificates

Technical data and features

①	Authentication	CARD/Mobile, PIN, CARD/Mobile & PIN combined
	Code	PIN code managed by the access control system
	RFID technologies	iCLASS, iCLASS SE, iCLASS Seos, MIFARE Classic, Mifare Classic SE, Mifare Ultralight, Mifare Plus, Mifare DESFire 0.6, Mifare DESFire EV1, Mifare DESFire EV2, Mifare DESFire EV3 (EV2 and EV3 only in Legacy mode), Mifare DESFire SE, PicoPass, ISO 14443A UID, ISO 14443B UID, ISO 15693 UID
	RFID reading	UID / Sector / Block / Application / File / Depending on the RFID technology
	RFID reading range	Up to 4 cm
	Mobile technology	NFC
✓	Approvals	CE and EN 179, EN14846. Fire (AL580: VTT-S-7107, AL480: EUFI29-21002699-T1, EUFI29-21002697-T1)
	Dimensions	Standard: Lock: 150 × 75 × 19,5 (H × W × D) Reader inside: 167,8 × 48 × 20 (H × W × D) Reader outside: 101,8 × 43,7 × 15 (H × W × D)
	Handle	Handle sold separately
	Surface	Reader: Plastic Reader Escutcheon: Stainless steel Faceplate for the lock: Stainless steel
	Door profile	Standard or narrow profile
	DIN direction	Left / right convertible
	Backset	Standard doors: 50 mm Narrow doors: 30 mm, 35 mm
	Distance	Standard doors: 105 mm Narrow doors: 115 mm, spindle 8 mm
	Spindle	See feature: Door leaf thickness
	Faceplate	22 mm
	Door leaf thickness	Spindle length – Door thickness in (>): 47/50 (40-54 mm); 57/50 (47-66 mm); 67/60 (61-80 mm); 74/50 (66-80 mm); 120/120 (88-100 mm); 80/50 (70-87 mm)
	Battery	2 × Lithium AA (FR6)
	Battery life (based on reader type)	65 openings per day for 50 months
	Emergency power	Via power supply connector
	Radio standard	IEEE 802.15.4 (2.4 GHz)
((()))	Encryption (radio communication)	AES 128 bits
	Distance between device and hub	Up to 25m depending on the building environment
	Class of protection	IP 44 inside* / IP 54 outside**
	Operating temperature range	10°C to 65°C inside / -40°C to 65°C outside
	Relative humidity	< 85% (condensation-free)
	Status	LED (red/green/orange) and buzzer
	Door sensor information	Door position (open/closed); Bolt position (secured/unsecured); Handle position (REX); Tamper detection
	Communication interfaces	Communication via radio (USB dongle) or micro-USB cable (accessory)
	Offline and Online operation modes	Aperio Online; Aperio Offline; OSS-standard Offline



It includes:

- 1 lock case with 2 batteries (Lithium AA FR6)
- Reader and main electronics
- Screws, flexible cables
- Spindles have to be ordered separately
- Manual including instructions for installation and drilling



Communicates with:

- RS485 Communication Hub
- Aperio IP Communication Hub
- Wiegand Interface (standard and "advanced" versions) Communication Hub



Smart Credential Handling:

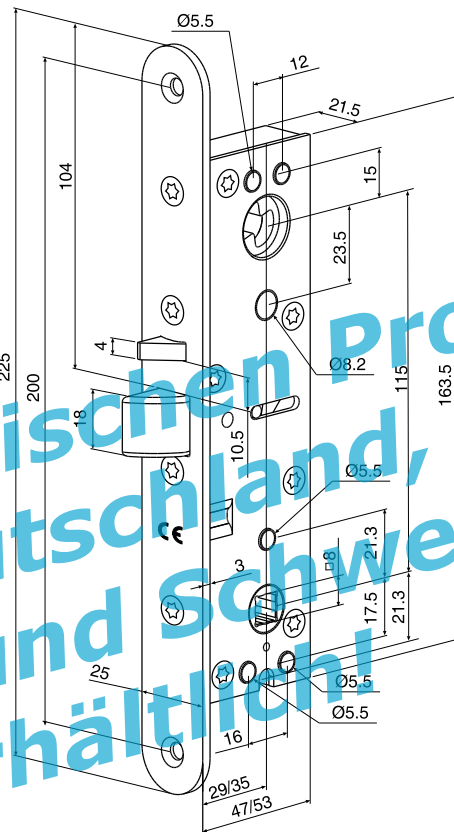
Up to 1000 users can be granted access even if the EAC is temporarily down.

* L100 is recommended for use indoors. However, it can be placed in a door facing outdoors (but the battery pack must always be in the indoor part).

** Harsh, outdoor environments may affect product operation (excessive humidity, salt, extreme temperatures).

Technical information

Narrow profile (AL480)



Aperio L100 Wireless Lock Scandinavian profile

Ordering information



Standard reader

Ordering number	Door	Backset in mm
AL580_500140	Standard	50
AL480_500100	Narrow profile	30
AL480_500110	Narrow profile	35

PINpad reader

Ordering number	Door	Backset in mm
AL580_501140	Standard	50
AL480_501100	Narrow profile	30
AL480_501110	Narrow profile	35

Accessories

L100 may optionally be equipped with reader plates for easy installation e.g. in fire doors where no extra drilling to the door is allowed



Reader plate for L100 with standard reader
Ordering number: 953030
Standard profile

Reader plate for L100 with standard reader
Ordering number: 953033
Narrow profile



Reader plate for L100 with PINpad reader
Ordering number: 953029
Standard profile

Reader plate for L100 with PINpad reader
Ordering number: 953034
Narrow profile

Aperio® L100

Wireless Lock

Finnish profile

Technical information

ASSA ABLOY
Opening Solutions

Experience a safer
and more open world

The cost-effective solution for doors with demanding access control requirements

The ASSA ABLOY Aperio L100 is the most complete electronic wireless security lock on the market. It works with almost any system, via Online, Offline or OSS-standard offline integration.

Main electronics inside –
reader element outside
including emergency
battery connector
and indication LEDs.

Outside handle (when
electrically engaged) retracts
latch/bolt.

Inside handle always
engaged (request to exit
sensor included).

Inbuilt LED instantly
communicates if access
is granted or denied.

Audio signal when card
is presented or keypad
is operated.

Integrated sensors for
bolt, door position and
mechanical key override.

Can be used with a wide
range of handles.

Versions:



Standard
reader



Keypad
reader



Reader
escutcheon

Lock profile:



Standard



Narrow



Easy integration

Aperio L100 works seamlessly with access control systems integrated with Aperio via the AADP protocol or Wiegand hub. No database integration required.



Highly effective burglary protection

Reader: IP54 outside part, IP44 inside part.
Lock case: CE, EN 179, EN 14846



Multi-authentication

L100 adds an extra layer of security to your opening with the Keypad version (only supported by Aperio online).



Monitoring

Integrated sensors for door (open/closed);
bolt position (locked/unlocked).
Handle status detection (request to exit).



Convenience

Aperio L100 reads industry-leading RFID credentials, as well as mobile (NFC).

Aperio L100 Wireless Lock Finnish profile

Technical information



Documents
and certificates

Technical data and features

	Authentication	CARD/Mobile, PIN, CARD/Mobile & PIN combined
	Code	PIN code managed by the access control system
	RFID technologies	iCLASS, iCLASS SE, iCLASS Seos, MIFARE Classic, Mifare Classic SE, Mifare Ultralight, Mifare Plus, Mifare DESFire 0.6, Mifare DESFire EV1, Mifare DESFire EV2, Mifare DESFire EV3 (EV2 and EV3 only in Legacy mode), Mifare DESFire SE, PicoPass, ISO 14443A UID, ISO 14443B UID, ISO 15693 UID
	RFID reading	UID / Sector / Block / Application / File / Data Depending on the RFID technology
	RFID reading range	Up to 4 cm
	Mobile technology	NFC
	Approvals	CE, EN 179 and EN 14846. Fire (AL581: VTT-S-05483-13, AL480: EUFI29-21002699-T1, EUFI29-21002697-T1)
	Dimensions	Standard: Lock: 158 × 82 × 20 (H × W × D) Reader inside: 167,8 × 48 × 20 (H × W × D) Reader outside: 101,8 × 43,7 × 15 (H × W × D)
	Handle	Handle sold separately
	Surface	Reader: Plastic Reader Escutcheon: Stainless steel Faceplate for the lock: Stainless steel
	Door profile	Standard or narrow profile
	DIN direction	Left / right convertible
	Backset	Standard doors: 50 mm Narrow doors: 30 mm, 35 mm
	Distance	Standard doors: 69 mm Narrow doors: 115 mm, spindle 8 mm
	Spindle	See feature: Door leaf thickness
	Faceplate	22 mm
	Door leaf thickness	Spindle length – Door thickness in (): 47/50 (40-54 mm); 57/50 (47-66 mm); 67/60 (61-80 mm); 74/50 (66-80 mm); 120/120 (88-100 mm); 80/50 (70-87 mm)
	Battery	2 × Lithium AA (FR6)
	Battery life (based on reader type)	65 openings per day for 50 months
	Emergency power	Via power supply connector
	Radio standard	IEEE 802.15.4 (2.4 GHz)
	Encryption (radio communication)	AES 128 bits
	Distance between device and hub	Up to 25m depending on the building environment
	Class of protection	IP 44 inside* / IP 54 outside**
	Operating temperature range	10°C to 65°C inside / -40°C to 65°C outside
	Relative humidity	< 85% (condensation-free)
	Status	LED (red/green/orange) and buzzer
	Door sensor information	Door position (open/closed); Bolt position (secured/unsecured); Handle position (REX); Tamper detection
	Communication interfaces	Communication via radio (USB dongle) or micro-USB cable (accessory)
	Offline and Online operation modes	Aperio Online; Aperio Offline; OSS-standard Offline



It includes:

- 1 lock case with 2 batteries (Lithium AA FR6)
- Reader and main electronics
- Screws, flexible cables
- Spindles have to be ordered separately
- Manual including instructions for installation and drilling



Communicates with:

- RS485 Communication Hub
- Aperio IP Communication Hub
- Wiegand Interface (standard and advanced versions) Communication Hub



Smart Credential Handling:

Up to 1000 users can be granted access even if the EAC is temporarily down.

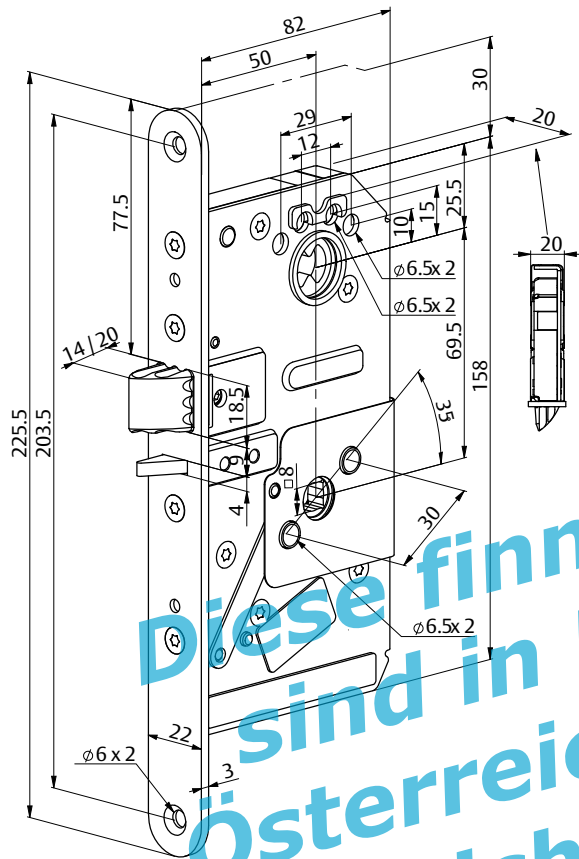
* L100 is recommended for use indoors. However, it can be placed in a door facing outdoors (but the battery pack must always be in the indoor part).

** Harsh, outdoor environments may affect product operation (excessive humidity, salt, extreme temperatures).

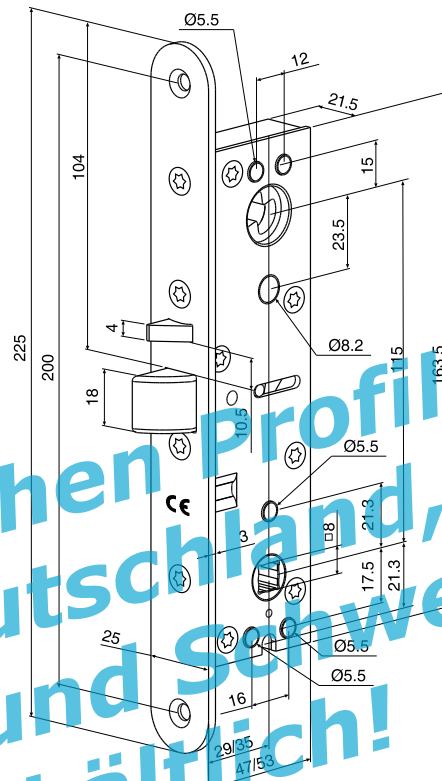
Aperio L100 Wireless Lock Finnish profile

Technical information

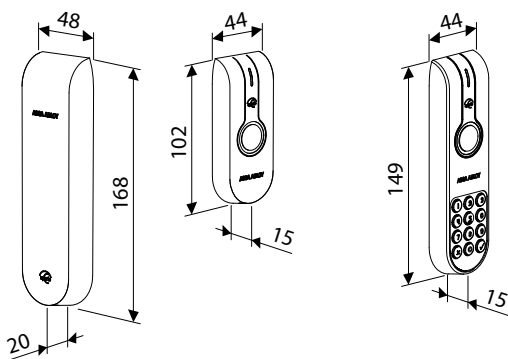
Standard door (AL581)



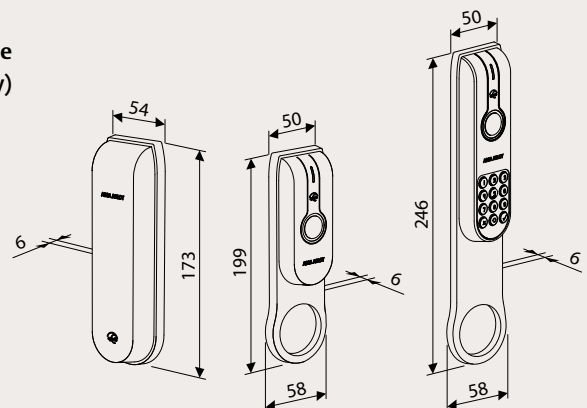
Narrow profile (AL480)



Readers



Accessories:
Reader plates (to be
ordered separately)



Aperio L100 Wireless Lock Finnish profile

Ordering information



Standard reader

Ordering number	Door	Backset in mm
AL581_500140	Standard	50
AL480_500100	Narrow profile	30
AL480_500110	Narrow profile	35

PINpad reader

Ordering number	Door	Backset in mm
AL581_500140	Standard	50
AL480_500100	Narrow profile	30
AL480_500110	Narrow profile	35

Accessories

L100 may optionally be equipped with reader plates for easy installation e.g. in fire doors where no extra drilling to the door is allowed



Reader plate for L100 with standard reader
Ordering number: 953030
Standard profile



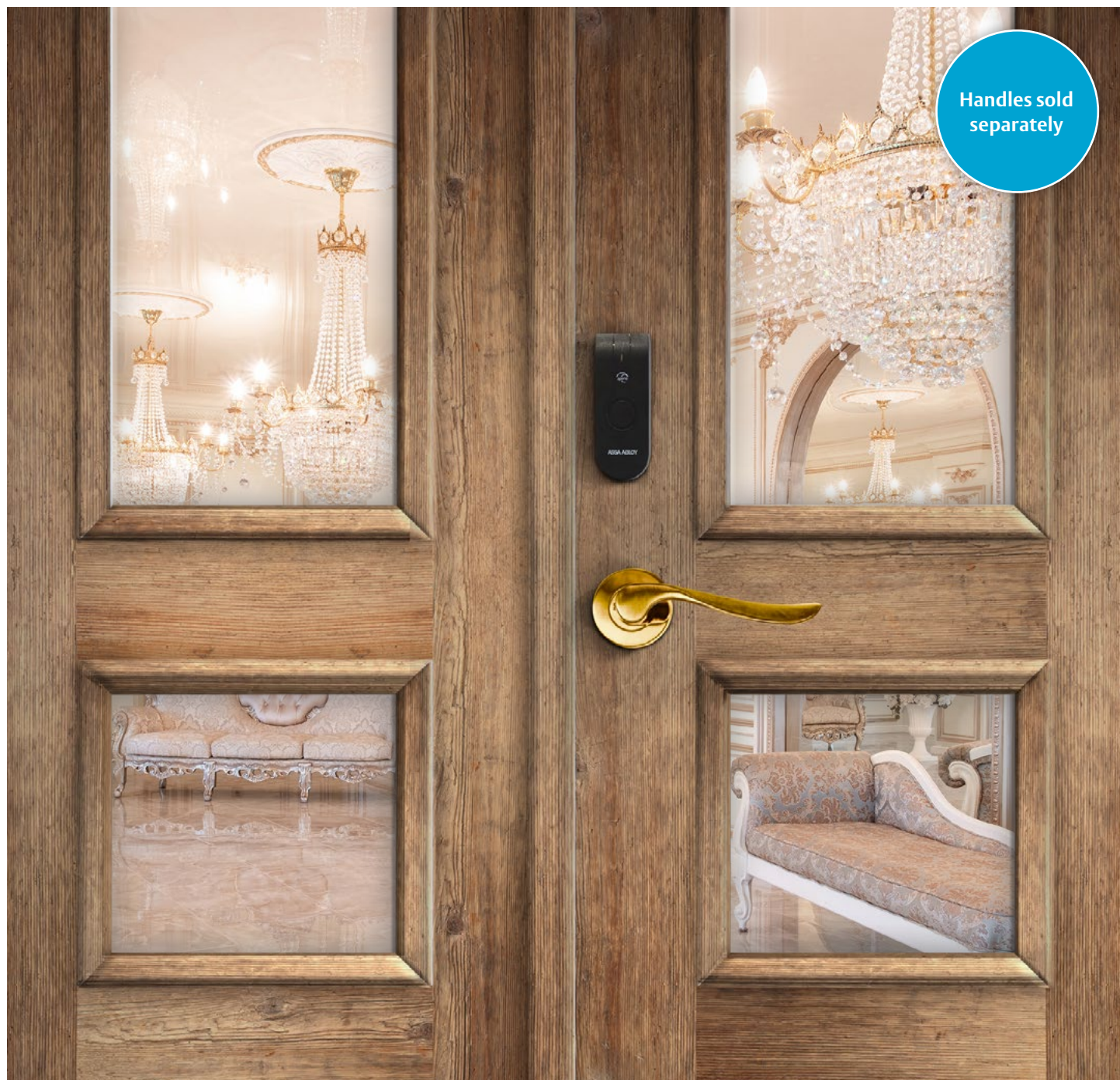
Reader plate for L100 with PINpad reader
Ordering number: 953029
Standard profile

Reader plate for L100 with standard reader
Ordering number: 953033
Narrow profile

Reader plate for L100 with PINpad reader
Ordering number: 953034
Narrow profile

Designed to fit all kinds of interiors

L100 Wireless Lock is compatible with a wide range of standard handles





Aperio E100 Wireless Escutcheon

Comprehensive information on technical specifications, features, product drawings, and ordering details

Aperio® E100 Premium Wireless Escutcheon Euro profile

Technical information

ASSA ABLOY
Opening Solutions

Experience a safer
and more open world

For higher security and safety applications

The ASSA ABLOY Aperio E100 is the most convenient way to upgrade access control: It is fitted without wiring at the door and works with almost any system, via Online, Offline or OSS-standard offline integration.



Open with a smart card or mobile phone.
The Keypad option offers multi-authentication
for an extra layer of security*.

*Only supported by Aperio online



Certified electronic
escutcheon for
security, fire and
escape route doors

Main electronics (RFID +
radio + BLE) outside, security
electronics inside.

Audio signal when card
is presented or keypad
is operated.

Optional electronic
privacy button.

The external handle is
designed to disengage
if excessive pressure
is applied, preventing
breakage and enhancing
durability.

Internal handle use
detection (request to
exit, escape & return).

Inside handle always
engaged.

Cutouts:



EUR Cylinder

Swiss Cylinder

Blind



Easy integration

Aperio E100 works seamlessly with access
control systems integrated with Aperio via
the AADP protocol or Wiegand hub. No
database integration required.



Quick installation

Minimal drilling. Interconnecting cable.



Flexibility

Can be used with all European (DIN)
mortise locks – in wooden, steel and
tubular-frame doors (and glass doors).



Convenience

Aperio E100 reads industry-leading RFID
credentials, as well as mobile (NFC and BLE).



Privacy function (optional)

Electronic privacy button when pressed/
enabled allows the user to restrict access into
the area. When engaged, the EAC may still
grant access to specific users.

Aperio E100 Premium Wireless Escutcheon Euro profile

Technical information



Documents
and certificates

Technical data and features

	Authentication	CARD/Mobile, PIN, CARD/Mobile & PIN combined
	Code	PIN code managed by the access control system
	RFID technologies (based on reader type)	iCLASS, iCLASS SE, iCLASS Seos, MIFARE Classic, Mifare Classic SE, Mifare Ultralight, Mifare Plus, Mifare DESFire 0.6, Mifare DESFire EV1, Mifare DESFire EV2, Mifare DESFire EV3 (EV2* and EV3* only in Legacy mode), Mifare DESFire SE, LEGIC® Advant, LEGIC® Prime, PicoPass, ISO 14443A UID, ISO 14443B UID, ISO 15693 UID. Exceptions: LEGIC-only reader available
	RFID reading	UID / Sector / Block / Application / File / LEGIC® Segment Data – Depending on the RFID technology
	RFID reading range	Up to 4 cm
	Mobile technology	Seos, STid and Gallagher-enabled mobile credentials via BLE* and NFC Seos and DESFire mobile credentials in Apple Wallet and Google Wallet
	Approvals	CE, UKCA, EN 179, DIN18273**, Fire EN 1634, EN 16867
	Dimensions	312 × 41 × 10/20 mm (H × W × D)
	Handle	U-Shape
	Surface	Stainless steel brushed
	Distance	Blind, 70, 72, 74, 78, 85, 88, 90, 92, 94*
	Spindle	Spindle 9 mm (8.5 mm for Austria)
	Door leaf thickness	Door leaf between 40 and 100 mm thick, in 5 mm increments
	Backset	> 40 mm
	Mounting plate	n/a
	Battery	1 × Lithium CR123A
	Battery life (based on reader type)	30 openings per day for 50 months***
	Emergency power	Via micro-USB socket
	Radio standard	IEEE 802.15.4 (2.4 GHz)
	Encryption (radio communication)	AES 128 bits
	Distance between device and hub	Up to 25m depending on the building environment
	Class of protection	IP52 and 54****
	Operating temperature range	0°C to 60°C
	Relative humidity	< 85% (condensation-free)
	Status	LED (red/green/orange) and buzzer
	Door sensor information	Internal handle use detection (request to exit, escape & return)
	Communication interfaces	Communication via radio (USB dongle) or micro-USB cable (accessory)
	Offline and Online operation modes	Aperio Online; Aperio Offline; OSS-standard Offline



For indoor use



It includes:

- 1 escutcheon with battery (Lithium CR123A)
- Screws
- Drilling template
- Tool for inserting cables (for thicker doors)
- Installation instructions



Communicates with:

- RS485 Communication Hub
- Aperio IP Communication Hub
- Wiegand Interface (standard and advanced versions) Communication Hub



Smart Credential Handling:

Up to 1000 users can be granted access even if the EAC is temporarily down.

* LEGIC version is not available with BLE

** The certification for fire-rated door is only valid if all other relevant door components are tested together with the E100 Premium.

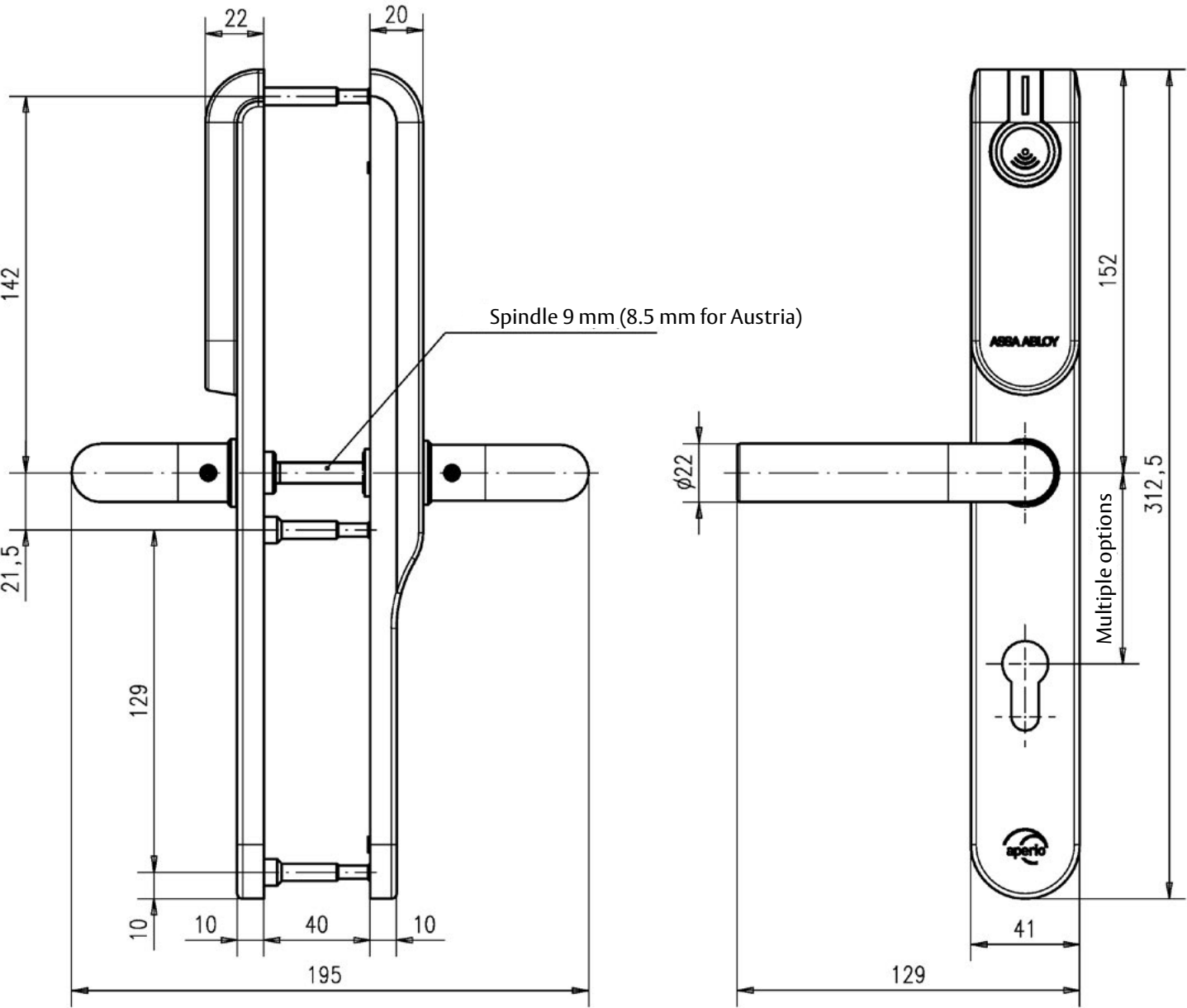
*** Except LEGIC

**** Outdoor environments may affect product operability (excessive humidity, salt, extreme temperatures)

Aperio E100 Premium Wireless Escutcheon Euro profile

Technical information

E100 EURO Premium



Aperio E100 Premium Wireless Escutcheon Euro profile

Ordering information

K

Door thickness

K

40-44

L

45-49

M

50-54

N

55-59

O

60-64

P

65-69

Q

70-74

R

75-79

S

80-84

T

85-89

U

90-94

V

95-99

Distance		d
-	blind	
0	72mm	
1	92mm	
2	74mm	
3	94mm	
4	70mm	
5	78mm	
6	88mm	
7	85mm	
9	90mm	

5	0	1	1	f	m	r	s	K	c	d	2	1	2	v
---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

White cells:
Default values (don't change the given values)

Coloured cells:
Choose the right value by looking at the different options in the illustration

Function	
-	normal (Aperio Online and OSS Offline)
f	Aperio Online and Aperio Offline

ID Module (RFID reader)

1	RFID
3	Keypad + RFID
B	RFID IP54
D	Keypad + RFID IP54

Cylinder cutout

-	without (blind)
1	Euro profile
3	Swiss round
5	Swiss outside / inside blind
6	Euro outside / inside blind

Square spindle

9	9mm (Fire protection)
A	8,5mm (Fire version Austria)

RFID technology

C	High Frequency + BLE
B	Legic Multi

Version

-	normal
P	Privacy

Ordering example

5	0	1	1	-	1	C	9	K	1	1	2	1	2	-
Aperio Online/Offline				RFID reader		9mm spindle		Euro profile		no privacy function				

Not all combinations are available

Aperio® E100

Wireless Escutcheon

Euro profile

Technical information

ASSA ABLOY
Opening Solutions

Experience a safer
and more open world

Robust access control with customizable features

The ASSA ABLOY Aperio E100 is the most convenient way to upgrade access control: It is fitted without wiring at the door and works with almost any system, via Online, Offline or OSS-standard offline integration.



Open with a smart card or mobile phone.
The Keypad option offers multi-authentication
for an extra layer of security*.

*Only supported by Aperio online

Main electronics (RFID +
radio + BLE) outside, security
electronics inside.

Audio signal when card
is presented or keypad
is operated.

Different handle models:
U- and L- shapes.

Inbuilt LED instantly
communicates if access
is granted or denied.

Optional electronic
privacy button.

Internal handle use
detection (request to
exit, escape & return).

Inside handle always
engaged.

Cutouts:



EUR Cylinder Swiss Cylinder Blind



Easy integration

Aperio E100 works seamlessly with access
control systems integrated with Aperio via
the AADP protocol or Wiegand hub. No
database integration required.



Quick installation

Minimal drilling. Interconnecting cable.



Flexibility

Can be used with all European (DIN)
mortise locks – in wooden, steel and
tubular-frame doors (and glass doors).



Convenience

Aperio E100 reads industry-leading RFID
credentials, as well as mobile (NFC and BLE).



Privacy function (optional)

Electronic privacy button when pressed/
enabled allows the user to restrict access into
the area. When engaged, the EAC may still
grant access to specific users.

Aperio E100 Wireless Escutcheon Euro profile

Technical information



Documents
and certificates

Technical data and features

	Authentication	CARD/Mobile, PIN, CARD/Mobile & PIN combined
	Code	PIN code managed by the access control system
	RFID technologies (based on reader type)	iCLASS, iCLASS SE, iCLASS Seos, MIFARE Classic, Mifare Classic SE, Mifare Ultralight, Mifare Plus, Mifare DESFire 0.6, Mifare DESFire EV1, Mifare DESFire EV2, Mifare DESFire EV3 (EV2* and EV3* only in Legacy mode), Mifare DESFire SE, LEGIC® Advant, LEGIC® Prime, PicoPass, ISO 14443A UID, ISO 14443B UID, ISO 15693 UID. Exceptions: LEGIC-only reader available
	RFID reading	UID / Sector / Block / Application / File / LEGIC® Segment Data – Depending on the RFID technology
	RFID reading range	Up to 4 cm
	Mobile technology	Seos, STid and Gallagher-enabled mobile credentials via BLE* and NFC Seos and DESFire mobile credentials in Apple Wallet and Google Wallet
	Approvals	CE, UKCA, EN179, Fire EN1634 *
	Dimensions	312 × 41 × 10/20 mm (H × W × D)
	Handle	L-Shape, U-Shape
	Surface	Stainless steel brushed
	Distance	Blind, 70, 72, 74, 78, 85, 88, 90, 92, 94"
	Spindle	Spindle 8 mm, 9 mm, 10 mm
	Door leaf thickness	Door leaf between 40 and 100 mm thick, in 10 mm increments
	Backset	> 40 mm
	Mounting plate	n/a
	Battery	1 × Lithium CR123A
	Battery life (based on reader type)	30 openings per day for 50 months**
	Emergency power	Via micro-USB socket
	Radio standard	IEEE 802.15.4 (2.4 GHz)
	Encryption (radio communication)	AES 128 bits
	Distance between device and hub	Up to 25m depending on the building environment
	Class of protection	IP52 and 54***
	Operating temperature range	0°C to 60°C
	Relative humidity	< 85% (condensation-free)
	Status	LED (red/green/orange) and buzzer
	Door sensor information	Internal handle use detection (request to exit, escape & return)
	Communication interfaces	Communication via radio (USB dongle) or micro-USB cable (accessory)
	Offline and Online operation modes	Aperio Online; Aperio Offline; OSS-standard Offline



For indoor use



It includes:

- 1 escutcheon with battery (Lithium CR123A)
- Screws
- Drilling template
- Tool for inserting cables (for thicker doors)
- Installation instructions



Communicates with:

- RS485 Communication Hub
- Aperio IP Communication Hub
- Wiegand Interface (standard and advanced versions) Communication Hub



Smart Credential Handling:

Up to 1000 users can be granted access even if the EAC is temporarily down

* LEGIC version is not available with BLE

** Except LEGIC

*** Outdoor environments may affect product operability (excessive humidity, salt, extreme temperatures)

*Not approved for fire and smoke protection doors in Germany according to DIN 18273.

Aperio E100 Wireless Escutcheon Euro profile (French variation)

Technical information



Documents
and certificates

Technical data and features

	Authentication	CARD/Mobile, PIN, CARD/Mobile & PIN combined
	Code	PIN code managed by the access control system
	RFID technologies (based on reader type)	iCLASS, iCLASS SE, iCLASS Seos, MIFARE Classic, Mifare Classic SE, Mifare Ultralight, Mifare Plus, Mifare DESFire 0.6, Mifare DESFire EV1, Mifare DESFire EV2, Mifare DESFire EV3 (EV2* and EV3* only in Legacy mode), Mifare DESFire SE, LEGIC® Advant, LEGIC® Prime, PicoPass, ISO 14443A UID, ISO 14443B UID, ISO 15693 UID. Exceptions: LEGIC-only reader available
	RFID reading	UID / Sector / Block / Application / File / LEGIC® Segment Data – Depending on the RFID technology
	RFID reading range	Up to 4 cm
	Mobile technology	Seos, STid and Gallagher-enabled mobile credentials via BLE* and NFC Seos and DESFire mobile credentials in Apple Wallet and Google Wallet
	Approvals	CE, UKCA
	Dimensions	312 × 41 × 10/20 mm (H × W × D)
	Handle surface	L-Shape, U-Shape Stainless steel brushed
	Distance	blind, 72 mm, 92 mm, 70 mm
	Spindle	Spindle 7 mm, 8 mm
	Door leaf thickness	Door leaf between 40 and 100 mm thick, in 10 mm increments
	Backset	> 40 mm
	Mounting plate	n/a
	Battery	1 × Lithium CR123A
	Battery life (based on reader type)	30 openings per day for 50 months**
	Emergency power	Via micro-USB socket
	Radio standard	IEEE 802.15.4 (2.4 GHz)
	Encryption (radio communication)	AES 128 bits
	Distance between device and hub	Up to 25m depending on the building environment
	Class of protection	IP52 and 54***
	Operating temperature range	0°C to 60°C
	Relative humidity	< 85% (condensation-free)
	Status	LED (red/green/orange) and buzzer
	Door sensor information	Internal handle use detection (request to exit, escape & return)
	Communication interfaces	Communication via radio (USB dongle) or micro-USB cable (accessory)
	Offline and Online operation modes	Aperio Online; Aperio Offline; OSS-standard Offline



For indoor use



It includes:

- 1 escutcheon with battery (Lithium CR123A)
- Screws
- Drilling template
- Tool for inserting cables (for thicker doors)
- Installation instructions



Communicates with:

- RS485 Communication Hub
- Aperio IP Communication Hub
- Wiegand Interface (standard and advanced versions)
- Communication Hub



Smart Credential Handling:

Up to 1000 users can be granted access even if the EAC is temporarily down

* LEGIC version is not available with BLE

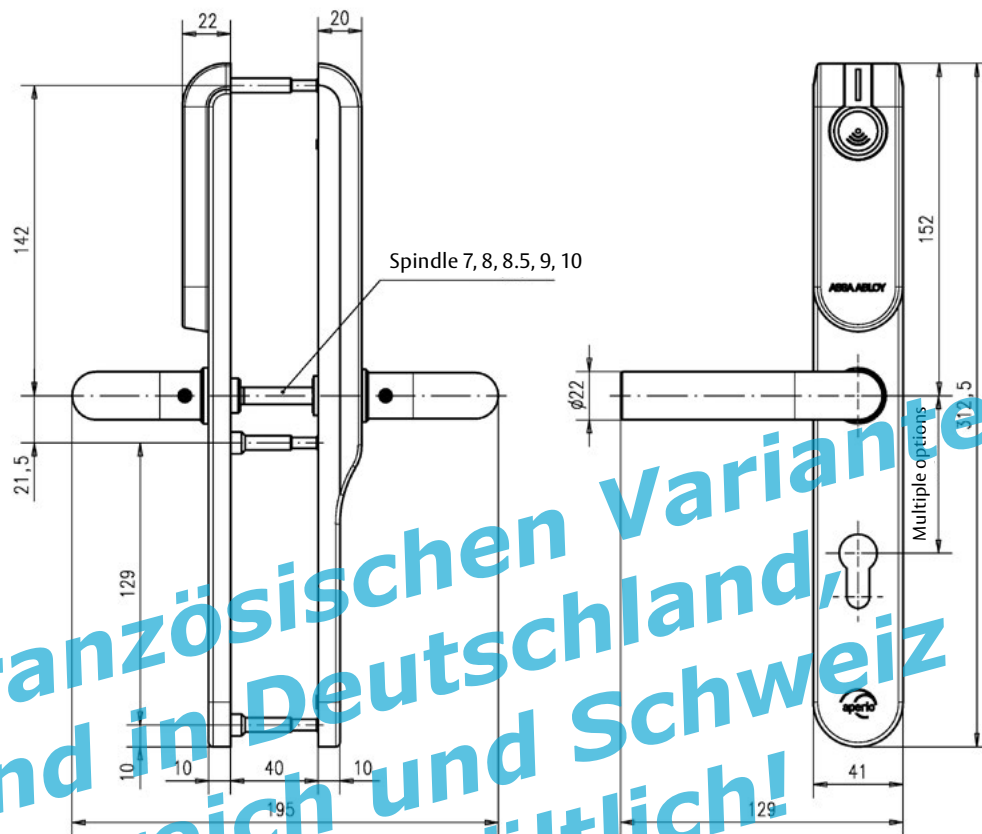
** Except LEGIC

*** Outdoor environments may affect product operability (excessive humidity, salt, extreme temperatures)

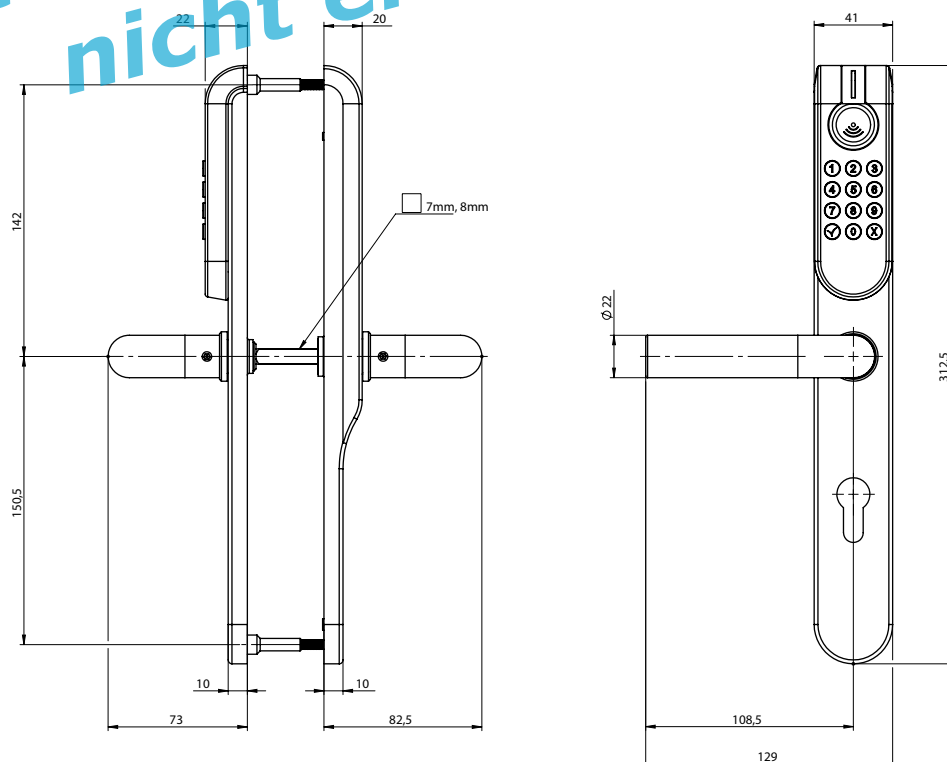
Aperio E100 Wireless Escutcheon Euro profile

Technical information

E100 European profile



E100 European profile (French variation)



Aperio E100 Wireless Escutcheon Euro profile

Ordering information

Door thickness		A	
A	40-49	N	55-59
B	50-59	O	60-64
C	60-69	P	65-69
D	70-79	Q	70-74
E	80-89	R	75-79
F	90-100	S	80-84
K	40-44	T	85-89
L	45-49	U	90-94
M	50-54	V	95-99

Distance		d	
-	blind		
0	72mm		
1	92mm		
2	74mm		
3	94mm		
4	70mm		
5	78mm		
6	88mm		
7	85mm		
9	90mm		

5	0	0	1	f	i	r	s	A	c	d	h	1	2	v
---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

White cells:
Default values (don't change the given values)

Coloured cells:
Choose the right value by looking at the different options in the illustration

Function
- normal (Aperio Online and OSS Offline)
f Aperio Online and Aperio Offline

ID Module (RFID reader)
1 RFID
3 Keypad + RFID
B RFID IP54
D Keypad + RFID IP54

Cylinder cutout
- without (blind)
1 Euro profile
3 Swiss round
5 Swiss outside / inside blind
6 Euro outside / inside blind

Square spindle
7 7mm
8 8mm
9 9mm (Fire version)
0 10mm
A 8,5mm (Fire version Austria)

Handle shape
1 L-form
2 U-form

Version
- normal
P Privacy

RFID technology
C High Frequency + BLE
B Legic Multi

Ordering example

5	0	0	1	-	1	C	8	A	1	1	1	1	2	-
Aperio Online/Offline				RFID reader		8mm spindle		Euro profile		L-form		no privacy function		

Not all combinations are available

Aperio E100 Wireless Escutcheon (French variation)

Ordering information

Door thickness		A
A	40-49	
B	50-59	
C	60-69	
D	70-79	
E	80-89	
F	90-99	

Distance		d
-	blind	
0	72mm	
1	92mm	
4	70mm	

5	0	0	3	f	m	r	s	A	c	d	h	1	2	v
---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

White cells:
Default values (don't change the given values)

Coloured cells:
Choose the right value by looking at the different options in the illustration

Function

- normal (Aperio Online and OSS Offline)
- f Aperio Online and Aperio Offline

ID Module (RFID reader)

- 1 RFID
- 3 Keypad + RFID
- B RFID IP54
- D Keypad + RFID IP54

Cylinder cutout

- without (blind)
- 1 Euro profile
- 6 Euro outside / inside blind

Square spindle

- 7 7mm
- 8 8mm

Handle shape

- 1 L-form
- 2 U-form

Version

- normal
- P Privacy

RFID technology

- C High Frequency + BLE
- B Legic Multi

Ordering example

5	0	0	3	-	1	C	8	A	1	1	1	1	2	-
Aperio Online/Offline					RFID reader		8mm spindle		Euro profile		L-form		no privacy function	

Not all combinations are available

Aperio® E100

Wireless Escutcheon

Scandinavian profile

Technical information

ASSA ABLOY
Opening Solutions

Experience a safer
and more open world

Robust access control with customizable features

The ASSA ABLOY Aperio E100 is the most convenient way to upgrade access control: It is fitted without wiring at the door and works with almost any system, via Online, Offline or OSS-standard offline integration.



Open with a smart card or mobile phone. The Keypad option offers multi-authentication for an extra layer of security*.

*Only supported by Aperio online

Main electronics (RFID+ radio + BLE) outside, security electronics inside.

Audio signal when card is presented or keypad is operated.

Different handle models: U- and L- shapes.

Inbuilt LED instantly communicates if access is granted or denied.

Optional electronic privacy button.

Inside handle always engaged.

Internal handle use detection (request to exit, escape & return).



Easy integration

Aperio E100 works seamlessly with access control systems integrated with Aperio via the AADP protocol or Wiegand hub. No database integration required.



Quick installation

No or minimal drilling. Interconnecting cable.



Flexibility

Can be used with all Scandinavian mortise locks – in wooden, steel and tubular-frame doors (and glass doors).



Convenience

Aperio E100 reads industry-leading RFID-credentials, as well as mobile (NFC and BLE).



Privacy function (optional)

Electronic privacy button when pressed/enabled allows the user to restrict access into the area. When engaged, the EAC may still grant access to specific users.

Versions:



Standard

Keypad

Cutouts:



Cylinder

Blind

Thumbturn

Aperio E100 Wireless Escutcheon Scandinavian profile

Technical information



Documents
and certificates

Technical data and features

①	Authentication	CARD/Mobile, PIN, CARD/Mobile & PIN combined
	Code	PIN code managed by the access control system
	RFID technologies (based on reader type)	iCLASS, iCLASS SE, iCLASS Seos, MIFARE Classic, Mifare Classic SE, Mifare Ultralight, Mifare Plus, Mifare DESFire 0.6, Mifare DESFire EV1, Mifare DESFire EV2, Mifare DESFire EV3 (EV2 and EV3 only in Legacy mode), Mifare DESFire SE, Prime, PicoPass, ISO~14443A~UID, ISO 14443B UID, ISO~15693 UID, LEGIC-only reader available
	RFID reading	UID / Sector / Block / Application / File / LEGIC® Segment Data – Depending on the RFID technology
	RFID reading range	Up to 4 cm
	Mobile technology	Seos, STid and Gallagher-enabled mobile credentials via BLE* and NFC Seos and DESFire mobile credentials in Apple Wallet and Google Wallet
✓	Approvals	CE, UKCA
	Dimensions	312 × 41 × 10/20 mm (H × W × D)
	Handle Surface	L-Shape, U-Shape Stainless steel brushed
	Distance	105 mm
	Spindle	Spindle 8 mm
	Door leaf thickness	Door leaf between 33 and 92 mm thick, in ~10 mm~increments
	Backset	> 40 mm
	Mounting plate	Width: 45 mm
	Battery	1 × Lithium CR123A
	Battery life (based on reader type)	30 openings per day for 50 months**
	Emergency power	Via micro-USB socket
	Radio standard	IEEE 802.15.4 (2.4 GHz)
	Encryption (radio communication)	AES 128 bits
	Distance between device and hub	Up to 25m depending on the building environment
	Class of protection	IP52 and 54****
	Operating temperature range	0°C to 60°C
	Relative humidity	< 85% (condensation-free)
	Status	LED (red/green/orange) and buzzer
	Door sensor information	Internal handle use detection (request to exit, escape & return)
	Communication interfaces	Communication via radio (USB dongle) or micro-USB cable (accessory)
	Offline and Online operation modes	Aperio Online; Aperio Offline; OSS-standard Offline



For indoor use



It includes:

- 1 escutcheon with battery (Lithium~CR123A)
- Screws
- Tool for inserting cables (for thicker doors)
- Installation instructions

Communicates with:

- RS485 Communication Hub
- Aperio IP Communication Hub
- Wiegand Interface (standard and~advanced~versions) Communication Hub



Smart Credential Handling:

Up to 1000 users can be granted access even if the EAC is temporarily down.

* LEGIC version is not available with BLE

** Except LEGIC

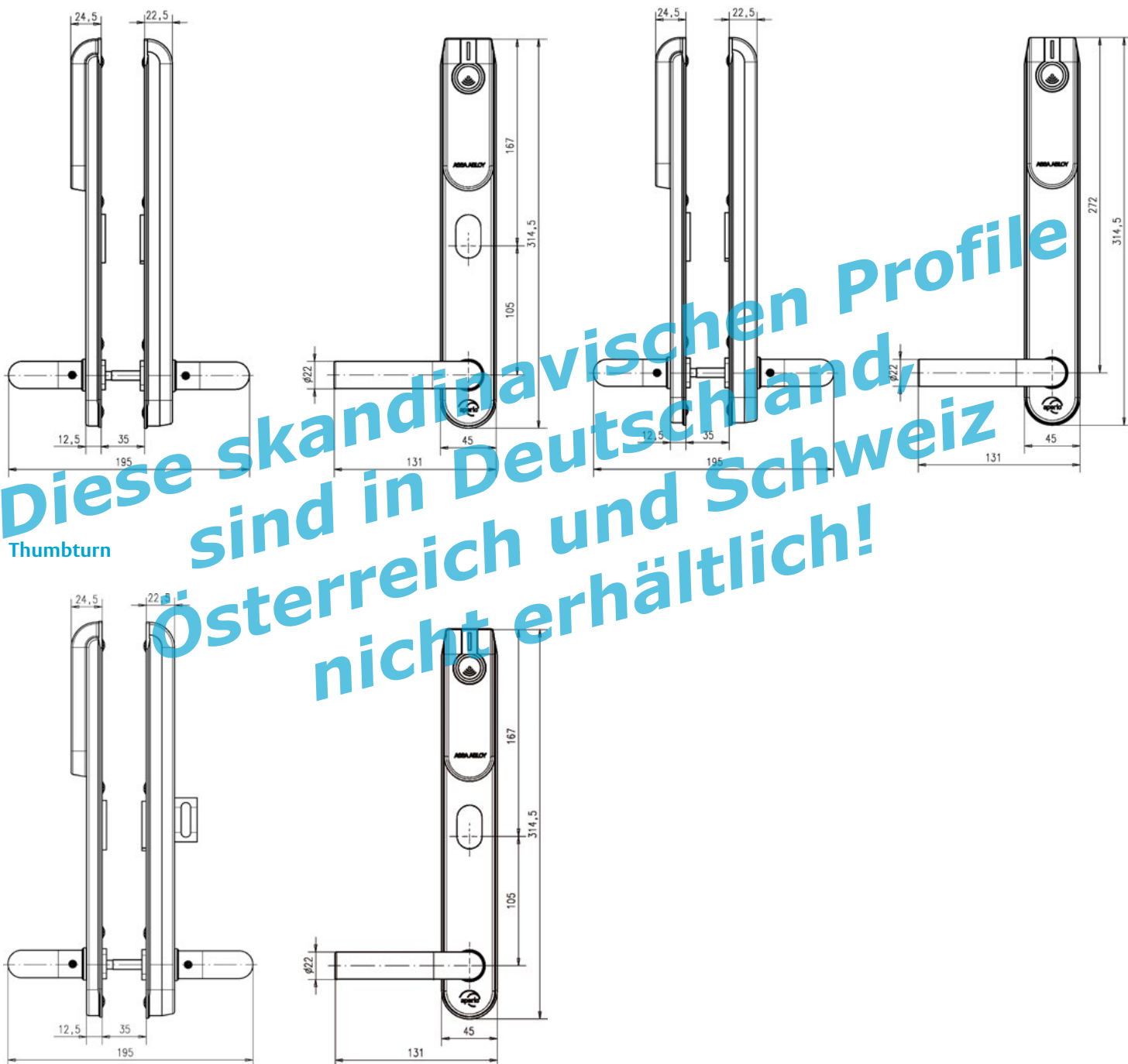
*** Outdoor environments may affect product operability (excessive humidity, salt, extreme temperatures)

Aperio E100 Wireless Escutcheon Scandinavian profile

Technical information

Cylinder cutout

Blind



Aperio E100 Wireless Escutcheon Scandinavian profile

Ordering information

Door thickness		A
A	33-42	
W	38-48	
B	43-52	
C	53-62	
D	63-72	
E	73-82	
F	83-92	

Distance		d
-	blind	
8	105mm	

White cells:
Default values (don't change the given values)

Coloured cells:
Choose the right value by looking at the different options in the illustration

5	0	0	2	m	r	8	A	d	h	1	2	v
---	---	---	---	---	---	---	---	---	---	---	---	---

Function	
-	normal (Aperio Online and OSS Offline)
f	Aperio Online and Aperio Offline

ID Module (RFID reader)	
1	RFID
3	Keypad + RFID
B	RFID IP54
D	Keypad + RFID IP54

Cylinder	
7	Scan oval outside / inside blind
8	Scan oval outside / inside knob
9	Scan outside / inside blind

Handle shape	
1	L-form
2	U-form

Version	
-	normal
P	Privacy

RFID technology	
C	High Frequency + BLE
B	Legic Multi

Ordering example

5	0	0	2	-	1	C	8	A	7	8	1	1	2	-
Aperio Online/Offline				RFID reader			Scan oval outside / Inside blind			L-form		no privacy function		

Not all combinations are available

Aperio E100

Optional Covering plate to cover existing boreholes

The decorative plate for the electronic escutcheon can be used for the covering of drilled holes of the previously installed escutcheon.

Ordering number	Version
500ZB-CPLATE-00	for Euro-, Swiss-, French- and Blind-Profiles





Aperio H100 Wireless Handle

Comprehensive information on technical specifications, features, product drawings, and ordering details

Aperio® H100

Wireless Handle

Euro profile

Technical Information

ASSA ABLOY
Opening Solutions

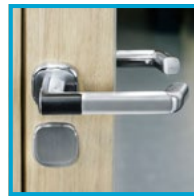
Experience a safer
and more open world

Powerful access control inside an award-winning slimline door handle

The ASSA ABLOY Aperio H100 is the easy, aesthetically pleasing way to upgrade access control: It is fitted without wiring or drilling at the door and works with almost any system, via Online, Offline or OSS-standard offline integration.

Inbuilt LED instantly communicates if access is granted or denied.

Discreet handle with minimal footprint and contemporary design.



U-handle adapter available as an accessory.



Easy integration

Aperio H100 works seamlessly with access control systems integrated with Aperio via the AADP protocol or Wiegand hub. No database integration required.



Quick installation

It takes a few minutes to swap a mechanical handle for an Aperio H100.



Flexibility

Can be used with the most common DIN mortise locks – in wooden, steel, and tubular frame doors (and glass doors with standard lock cases).



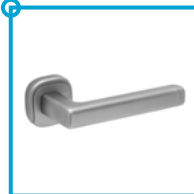
Convenience

Aperio H100 reads industry-leading RFID credentials, as well as mobile (NFC and BLE).



Inside handle always engaged.

All electronics and functionality are inside the outer part of the handle.



Profiles and finishes:

Available profiles: Euro, Scandinavian and Finnish.

Available finishes: Satin Chrome or black



Black version available in the future






Aperio H100 Wireless Handle Euro profile

Technical information



Documents
and certificates

Technical data and features

①	Authentication	CARD/Mobile
	RFID technologies	iCLASS, iCLASS SE, iCLASS Seos, MIFARE Classic, Mifare Classic SE, Mifare Ultralight, Mifare Plus, Mifare DESFire 0.6, Mifare DESFire EV1, Mifare DESFire EV2, Mifare DESFire EV3 (EV2 and EV3 only in Legacy mode), Mifare DESFire SE, PicoPass, ISO 14443A UID, ISO 14443B UID, ISO 15693 UID
	RFID reading	UID / Sector / Block / Application / File / Depending on the RFID technology
	RFID reading range	Up to 4 cm
	Mobile technology	Seos, STid and Gallagher-enabled mobile credentials via BLE and NFC Seos and DESFire mobile credentials in Apple Wallet and Google Wallet
✓	Approvals	CE, UKCA, Fire EN 1634 *
	Dimensions	56 × 55 × 13,5 mm (rose dimensions H × W × D)
	Version	Left- and right-hand versions
	Handle	L-Shape, U-Shape through adapter (accessory)
	Surface	Santin chrome; Black
	Spindle	7 mm and 8 mm spindle and 7-8 mm adapter included, 9 mm available as accessory
	Door leaf thickness	35-80 mm but with accessory "10 mm distance ring" thinner doors can be used
	Backset	Min 30 mm
	Battery	1 × Lithium CR123A
	Battery life (based on reader type)	30 openings per day for 50 months
	Radio standard	IEEE 802.15.4 (2.4 GHz)
	Encryption (radio communication)	AES 128 bits
	Distance between device and hub	Up to 25m depending on the building environment
	Class of protection	IP40
	Operating temperature range	0°C to 55°C
	Relative humidity	< 85% (condensation-free)
	Status	LED (red/green/orange)
	Communication interfaces	Communication via radio (USB dongle) or USB type B adapter (accessory)
	Offline and Online operation modes	Aperio Online; Aperio Offline; OSS-standard Offline



For indoor use



It includes:

- 1 pair of handles with battery (Lithium~CR123A)
- Cuttable fixing screws
- 7 mm and 8 mm compatible spindle
- Installation instructions



Communicates with:

- RS485 Communication Hub
- Aperio IP Communication Hub
- Wiegand Interface (standard and~advanced~versions) Communication Hub



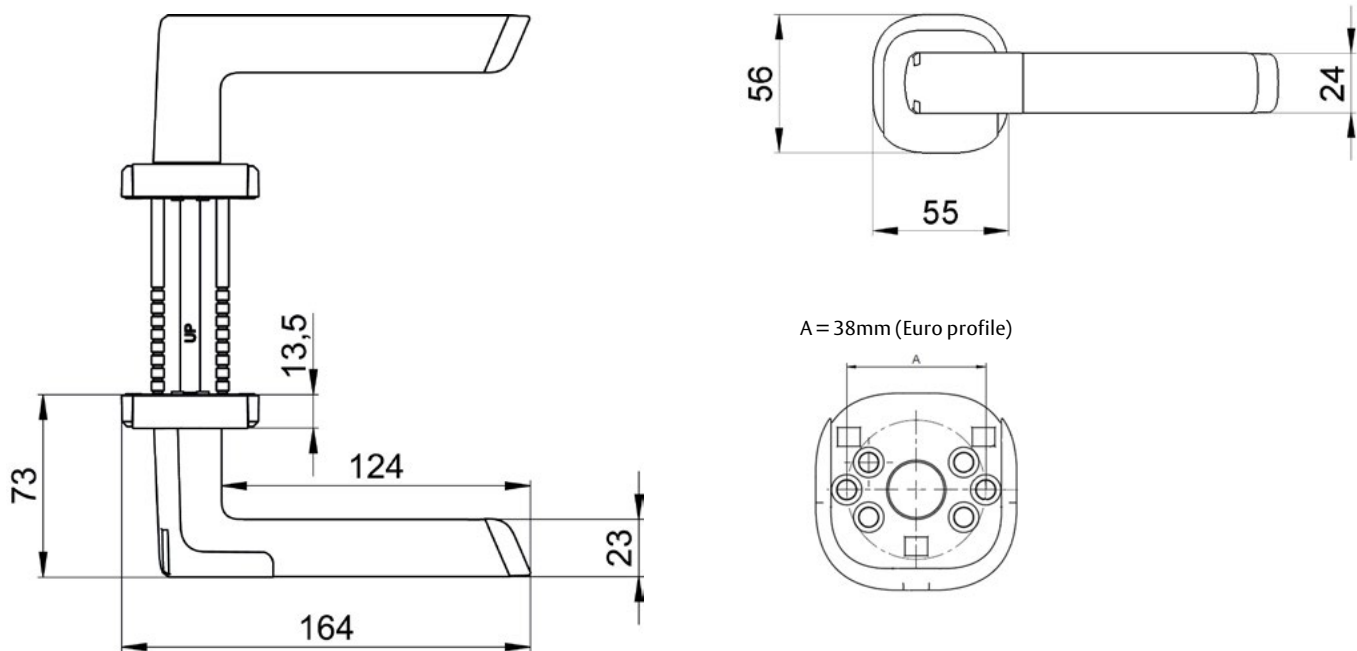
Smart Credential Handling:

Up to 1000 users can be granted access even if the EAC is temporarily down.

*Not approved for fire and smoke protection doors in Germany according to DIN 18273.

Aperio H100 Wireless Handle Euro profile

Technical information



Aperio H100 Wireless Handle Euro profile

Ordering information

Article code	Finish	Door direction	Integration
AP-H100B8L-EU	Satin chrome	left	Online
AP-H100B8R-EU	Satin chrome	right	Online
AP-H100B8L-EU-F	Satin chrome	left	Offline
AP-H100B8R-EU-F	Satin chrome	right	Offline
AP-H100B8L-EUB	Black	left	Online
AP-H100B8R-EUB	Black	right	Online
AP-H100B8L-EUBF	Black	left	Offline
AP-H100B8R-EUBF	Black	right	Offline

Aperio H100 for glass doors

Meeting rooms, office doors or treatment suites:

Almost any glass door can now be equipped with a wireless access control device.

As long as your glass door architectural hardware (handle and rosette) is compliant with one of Aperio's supported standards (DIN, SCAN & FIN) you can replace your handle with an Aperio H100



3 times awarded

by the industry for innovation, operation and interior design inside



Aperio® H100

Wireless Handle

Scandinavian and Finnish profiles

Technical Information

ASSA ABLOY
Opening Solutions

Experience a safer
and more open world

Powerful access control inside an award-winning slimline door handle

The ASSA ABLOY Aperio H100 is the easy, aesthetically pleasing way to upgrade access control: It is fitted without wiring or drilling at the door and works with almost any system, via Online, Offline or OSS-standard offline integration.

Inbuilt LED instantly communicates if access is granted or denied.

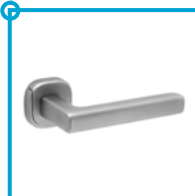
Discreet handle with minimal footprint and contemporary design.

U-handle adapter available as an accessory.



Inside handle always engaged.

All electronics and functionality are inside the outer part of the handle.



Profiles and finishes:

Available profiles: Euro, Scandinavian and Finnish.

Available finishes: Satin Chrome or black



Black version available in the future



Easy integration

Aperio H100 works seamlessly with access control systems integrated with Aperio via the AADP protocol or Wiegand hub. No database integration required.



Quick installation

It takes a few minutes to swap a mechanical handle for an Aperio H100.



Flexibility

Can be used with the most common Scandinavian and Finnish mortise locks – in wooden, steel, and tubular frame doors (and glass doors with standard lock cases).



Convenience

Aperio H100 reads industry-leading RFID credentials, as well as mobile (NFC and BLE).

Aperio H100 Handle Wireless Scandinavian and Finnish profiles

Technical information



Documents
and certificates

Technical data and features

	Authentication	CARD/Mobile
	RFID technologies	iCLASS, iCLASS SE, iCLASS Seos, MIFARE Classic, Mifare Classic SE, Mifare Ultralight, Mifare Plus, Mifare DESFire 0.6, Mifare DESFire EV1, Mifare DESFire EV2, Mifare DESFire EV3 (EV2 and EV3 only in Legacy mode), Mifare DESFire SE, PicoPass, ISO 14443A UID, ISO 14443B UID, ISO 15693 UID
	RFID reading	UID / Sector / Block / Application / File / Depending on the RFID technology
	RFID reading range	Up to 4 cm
	Mobile technology	Seos, STid and Gallagher-enabled mobile credentials via BLE and NFC Seos and DESFire mobile credentials in Apple Wallet and Google Wallet
	Approvals	CE, UKCA, Fire EN 1634
	Dimensions	56 × 55 × 13,5 mm (rose dimensions H × W × D)
	Version	Left- and right-hand versions
	Handle	L-Shape, U-Shape through adapter (accessory)
	Surface	Satin chrome; Black
	Spindle	8mm spindle
	Door leaf thickness	35-80 mm but with accessory "10 mm distance ring" thinner doors can be used
	Backset	Min 30 mm
	Battery	1 × Lithium CR123A
	Battery life (based on reader type)	30 openings per day for 50 months
	Radio standard	IEEE 802.15.4 (2.4 GHz)
	Encryption (radio communication)	AES 128 bits
	Distance between device and hub	Up to 25m depending on the building environment
	Class of protection	IP40
	Operating temperature range	0°C to 55°C
	Relative humidity	< 85% (condensation-free)
	Status	LED (red/green/orange)
	Communication interfaces	Communication via radio (USB dongle) or USB type B adapter (accessory)
	Offline and Online operation modes	Aperio Online; Aperio Offline; OSS-standard Offline



For indoor use



It includes:

- 1 pair of handles with battery (Lithium~CR123A)
- Cuttable fixing screws
- 8 mm spindle
- Installation instructions



Communicates with:

- RS485 Communication Hub
- Aperio IP Communication Hub
- Wiegand Interface (standard and "advanced" versions) Communication Hub



Smart Credential Handling:

Up to 1000 users can be granted access even if the EAC is temporarily down.

Aperio H100 Wireless Handle Scandinavian and Finnish profiles

Technical information



Ordering information

Article code	Finish	Profile	Door direction	Integration
AP-H100B8L-SC	Satin chrome	Scandinavian	left	Online
AP-H100B8R-SC	Satin chrome	Scandinavian	right	Online
AP-H100B8L-FI	Satin chrome	Finnish	left	Online
AP-H100B8R-FI	Satin chrome	Finnish	right	Online
AP-H100B8L-SC-F	Satin chrome	Scandinavian	left	Offline
AP-H100B8R-SC-F	Satin chrome	Scandinavian	right	Offline
AP-H100B8L-FI-F	Satin chrome	Finnish	left	Offline
AP-H100B8R-FI-F	Satin chrome	Finnish	right	Offline
AP-H100B8L-SCB	Black	Scandinavian	left	Online
AP-H100B8R-SCB	Black	Scandinavian	right	Online
AP-H100B8L-FIB	Black	Finnish	left	Online
AP-H100B8R-FIB	Black	Finnish	right	Online
AP-H100B8L-SCBF	Black	Scandinavian	left	Offline
AP-H100B8R-SCBF	Black	Scandinavian	right	Offline
AP-H100B8L-FIBF	Black	Finnish	left	Offline
AP-H100B8R-FIBF	Black	Finnish	right	Offline



Aperio C100 Wireless Cylinder

Find Comprehensive information on technical specifications, features, product drawings, and ordering details

Aperio® C100

Wireless Double Knob Cylinder

Euro profile

Technical information

ASSA ABLOY
Opening Solutions

Experience a safer
and more open world

The non-disruptive way to extend access control

The ASSA ABLOY Aperio C100 is the quickest way to upgrade access control: It is fitted without wiring or drilling at the door and works with almost any system, via Online, Offline or OSS-standard offline integration.

Metal double knob
cylinder Euro profile –
for use indoors.

Main electronics (RFID
+ radio) in the external
knob – secure electronics
inside cylinder core.

Internal knob is always
engaged on standard
model; option with
double reading available.

Inbuilt LED instantly
communicates if access
is granted or denied.

Rubber sleeve available
for enhanced grip.



Easy integration

Aperio C100 works seamlessly with access control systems integrated with Aperio via the AADP protocol or Wiegand hub. No database integration required.



Quick installation

It only takes a few minutes to swap a mechanical cylinder for an Aperio C100.



Flexibility

Compatible with all European DIN/Swiss mortise locks. Also suitable on glass doors.



Convenience

Aperio C100 reads industry-leading RFID credentials, as well as mobile (NFC and BLE).

Aperio C100 Wireless Double Knob Cylinder Euro profile

Technical information



Documents
and certificates

Technical data and features

①	Authentication	CARD/Mobile
	RFID technologies (based on reader type)	iCLASS, iCLASS SE, iCLASS Seos, MIFARE Classic, Mifare Classic SE, Mifare Ultralight, Mifare Plus, Mifare DESFire 0.6, Mifare DESFire EV1, Mifare DESFire EV2, Mifare DESFire EV3 (EV2 and EV3 only in Legacy mode), Mifare DESFire SE, PicoPass, ISO ^{14443A} UID, ISO ^{14443B} UID, ISO 15693 UID, LEGIC-only reader available
	RFID reading	UID / Sector / Block / Application / File / LEGIC [®] Segment Data – Depending on the RFID technology
	RFID reading range	Up to 4 cm
	Mobile technologies	Seos, STid and Gallagher-enabled mobile credentials via BLE and NFC Seos and DESFire mobile credentials in Apple Wallet and Google Wallet
✓	Approvals	CE, UKCA, EN 15684:2012 (16B0AF30), fire EN1634 door up to T90
	Version	Single sided electronics: Electronic (E) or Electronic removable (ER) outside/Mechanical removable (MR) inside Double sided electronics: Electronic (E) or Electronic removable (ER) outside/Electronic removable (ER) inside
	Knob dimensions	44 × 32 mm (L × Ø) 44 × 32 mm (L × Ø) for standard electronics and mechanical, 46,5 × 32mm (L × Ø) for demountable electronics
	Surface	Knob surface: stainless steel
	Cylinder length (LENGTH=A/LENGTH=B) Fixing screw	Basic length 30/30 mm, extendable in 5 mm increments 60, 70, 85 mm or without
	Battery	1 or 2 Lithium CR2 depending on version
	Battery life	10 openings per day for 27 months
	Radio standard	IEEE 802.15.4 (2.4 GHz)
	Encryption (radio communication)	AES 128 bits
	Distance between device and hub	Up to 25m depending on the building environment
	Class of protection	IP 65*
	Operating temperature range	-20°C to 55°C*
	Relative humidity	< 85% (condensation-free)
	Status	LED (red/green/orange)
	Communication interfaces	Communication via radio (USB dongle) or micro-USB cable (accessory)
	Offline and Online operation modes	Aperio Online; Aperio Offline; OSS-standard Offline



For indoor use



It includes:

- 1 double knob cylinder with battery (Lithium CR2)
- Optional fixing screw
- Knob tool can be ordered separately



Communicates with:

- RS485 Communication Hub
- Aperio IP Communication Hub
- Wiegand Interface (standard and "advanced" versions) Communication Hub

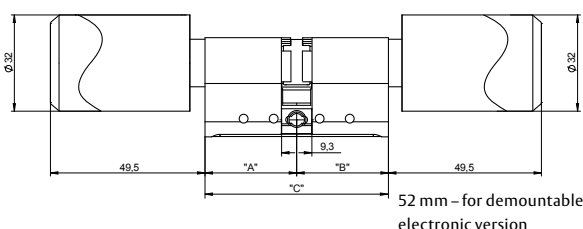


Smart Credential Handling:

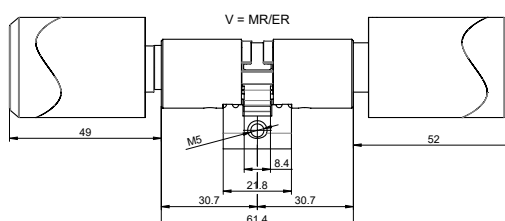
Up to 1000 users can be granted access even if the EAC is temporarily down.

* The C100 is for indoor use; outdoor environments may affect product operability.

Euro profile cylinder (Dimensions in mm)



Swiss profile cylinder (Dimensions in mm)



Aperio C100 Wireless Double Knob Cylinder Euro profile (single sided electronics)

Ordering information *

E= Electronic knob; M= Mechanical knob; R= Removable type

Version

5 E/MR (eletronic outside/mechanical removable inside)*

6 ER/MR (electronic removable outside/mechanical removable inside)*

RFID technology

C HF + BLE

B Legic

Function

0 normal (Aperio Online and OSS Offline)

f Aperio Online and Aperio Offline

Cam position

- non fixed

2 fixed

Cylinder profile

0 Euro Profile

3 Swiss round 22mm

Screw length

- without

0 85 mm

1 60 mm

2 70 mm

White cells:
Default values (don't change the given values)

Coloured cells:
Choose the right value by looking at the different options in the illustration

5	0	v	2	0	1	r	f	c	la	lb	p	s	-	-
---	---	---	---	---	---	---	---	---	----	----	---	---	---	---

Ordering example

5	0	5	2	0	1	C	f	-	2	1	0	-	-	-
Electronic external Mechanical internal		Aperio Online/Offline				High Frequency and BLE		non fixed	External cylinder 40mm	Without screw				
								Internal cylinder 35mm	Euro profile					

Please note the ordering information for the 'R' suffix on page 62

Aperio C100 Wireless Double Knob Cylinder Euro profile (single sided electronics)

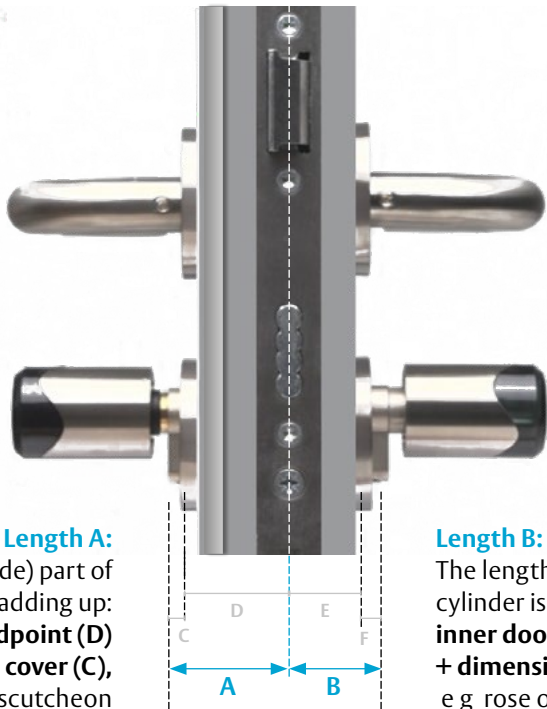
Ordering information*

E= Electronic knob; M= Mechanical knob; R= Removable type

How to measure the cylinder length

Outside part

Inside part



Length A:

The length of the electronic (outside) part of the cylinder is measured by adding up: **outer doorleaf thickness to the midpoint (D)** + **dimension of the outside cylinder cover (C)**, e.g. rose or escutcheon

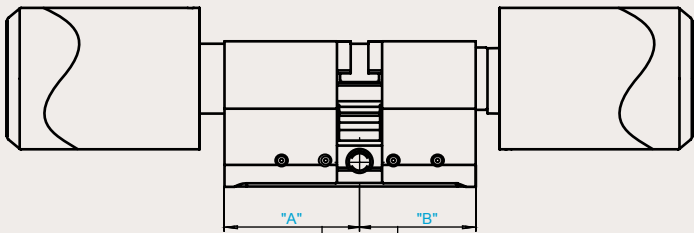
Length B:

The length of the mechanical (inside) part of the cylinder is measured by adding up: **inner doorleaf thickness to the midpoint (E)** + **dimension of the inside cylinder cover (F)**, e.g. rose or escutcheon

la lb

Choose cylinder length to build your ordering number

Outside part



Inside part

Length on Electronic (E/ER) side A

0	30mm	A	80mm
1	35mm	B	85mm
2	40mm	C	90mm
3	45mm	D	95mm
4	50mm	E	100mm
5	55mm	F	105mm
6	60mm	G	110mm
7	65mm	H	115mm
8	70mm	I	120mm
9	75mm		

Length on Mechanical (M/MR) side B

0	30mm	A	80mm
1	35mm	B	85mm
2	40mm	C	90mm
3	45mm	D	95mm
4	50mm	E	100mm
5	55mm	F	105mm
6	60mm	G	110mm
7	65mm	H	115mm
8	70mm	I	120mm
9	75mm		

Note:

If the resulting figure from adding C and D, or E and F is not a round number (ending in 0 or 5), choose the immediately higher value for that figure (for example, if the sum of C and D, or E and F is 78mm, choose the value 80mm).

Security recommendation: the cylinder must not protrude more than 3mm from the fitting (dimensions "C", "F" on picture)

Please note the ordering information for the 'R' suffix on page 62

Aperio C100 Wireless Double Knob Cylinder Euro profile (double sided electronics)

Ordering information*

E= Electronic knob; R= Removable type

Knob

3 E/ER (electronic outside/electronic removable inside)*

4 ER/ER (electronic removable outside/electronic removable inside)*

RFID technology

C HF + BLE

B Legic

Function

0 normal (Aperio Online and OSS Offline)

f Aperio Online and Aperio Offline

Cam position

- non fixed

2 fixed

Cylinder profile

0 Euro Profile

3 Swiss round 22mm

Screw length

- without

0 85 mm

1 60 mm

2 70 mm

White cells:
Default values (don't change the given values)

Coloured cells:
Choose the right value by looking at the different options in the illustration

5	0	k	2	0	1	r	f	c	la	lb	p	s	-	-
---	---	---	---	---	---	---	---	---	----	----	---	---	---	---

Ordering example

5	0	3	2	0	1	C	f	-	2	1	0	-	-	-
		Electronic external Electronic removable internal			High Frequency and BLE		non fixed		External cylinder 40mm		Without screw			
						Aperio Online/Offline		Internal cylinder 35mm		Euro profile				

Please note the ordering information for the 'R' suffix on page 62

Aperio C100 Wireless Double Knob Cylinder Euro profile (double sided electronics)

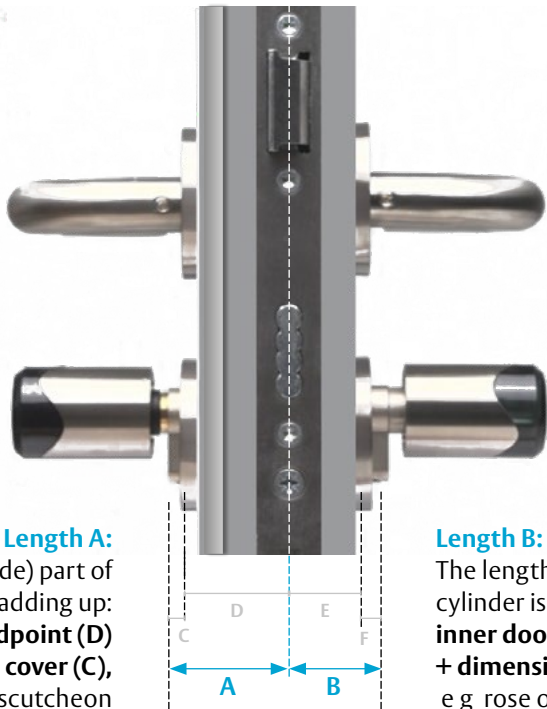
Ordering information*

E= Electronic knob; R= Removable type

How to measure the cylinder length

Outside part

Inside part



Length A:

The length of the electronic (outside) part of the cylinder is measured by adding up: **outer doorleaf thickness to the midpoint (D)** + **dimension of the outside cylinder cover (C)**, e.g. rose or escutcheon

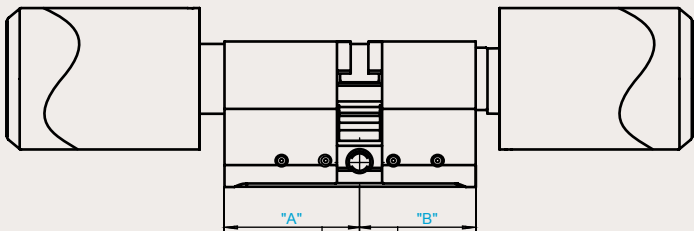
Length B:

The length of the electronic inside part of the cylinder is measured by adding up: **inner doorleaf thickness to the midpoint (E)** + **dimension of the inside cylinder cover (F)**, e.g. rose or escutcheon

la lb

Choose cylinder length to build your ordering number

Outside part



Inside part

Length on Electronic (E/ER) side A

0	30mm	A	80mm
1	35mm	B	85mm
2	40mm	C	90mm
3	45mm	D	95mm
4	50mm	E	100mm
5	55mm	F	105mm
6	60mm	G	110mm
7	65mm	H	115mm
8	70mm	I	120mm
9	75mm		

la lb

Electronic (E/ER) side B

0	30mm	A	80mm
1	35mm	B	85mm
2	40mm	C	90mm
3	45mm	D	95mm
4	50mm	E	100mm
5	55mm	F	105mm
6	60mm	G	110mm
7	65mm	H	115mm
8	70mm	I	120mm
9	75mm		

Note:

If the resulting figure from adding C and D, or E and F is not a round number (ending in 0 or 5), choose the immediately higher value for that figure (for example, if the sum of C and D, or E and F is 78mm, choose the value 80mm).

Security recommendation: the cylinder must not protrude more than 3mm from the fitting (dimensions "C", "F" on picture)

Please note the ordering information for the 'R' suffix on page 62

Aperio® C100

Wireless Single Knob Cylinder

Euro profile

Technical information

ASSA ABLOY
Opening Solutions

Experience a safer
and more open world

The non-disruptive way to extend access control

The ASSA ABLOY Aperio C100 is the quickest way to upgrade access control: It is fitted without wiring or drilling at the door and works with almost any system, via Online, Offline or OSS-standard offline integration.

Metal single knob cylinder – Euro profile – for use indoors.

Main electronics (RFID + radio) in the external knob – secure electronics inside cylinder core.

Freely rotating lock cam.

Rubber sleeve available for enhanced grip.

Inbuilt LED instantly communicates if access is granted or denied.



Easy integration

Aperio C100 works seamlessly with access control systems integrated with Aperio via the AADP protocol or Wiegand hub. No database integration required.



Quick installation

It only takes a few minutes to swap a mechanical cylinder for an Aperio C100.



Flexibility

Compatible with all European DIN/Swiss mortise locks. Also suitable on glass doors. Secure sensitive assets by retrofitting lockers, cabinets or server racks.



Convenience

Aperio C100 reads industry-leading RFID credentials, as well as mobile (NFC and BLE).

Aperio C100 Wireless Single Knob Cylinder Euro profile

Technical information



Documents
and certificates

Technical data and features

①	Authentication	CARD/Mobile
	RFID technologies (based on reader type)	iCLASS, iCLASS SE, iCLASS Seos, MIFARE Classic, Mifare Classic SE, Mifare Ultralight, Mifare Plus, Mifare DESFire 0.6, Mifare DESFire EV1, Mifare DESFire EV2, Mifare DESFire EV3 (EV2 and EV3 only in Legacy mode), Mifare DESFire SE, PicoPass, ISO 14443A UID, ISO 14443B UID, ISO 15693 UID, LEGIC-only reader available
	RFID reading	UID / Sector / Block / Application / File / LEGIC® Segment Data – Depending on the RFID technology
	RFID reading range	Up to 4 cm
	Mobile technologies	Seos, STid and Gallagher-enabled mobile credentials via BLE and NFC Seos and DESFire mobile credentials in Apple Wallet and Google Wallet
✓	Approvals	CE, UKCA, EN 15684:2012 (16B0AF30), fire EN1634 door up to T90
	Version	Fixed (E) or removable (R) knob versions with RFID-reader
	Knob dimensions	44 × 32 mm (L × Ø) for standard electronics, 46,5 × 32mm (L × Ø) for demountable electronics
	Surface	Knob surface: stainless steel
	Cylinder length (LENGTH=A/LENGTH=B)	Basic length 30 mm, extendable in 5 mm increments
	Fixing screw	60, 70, 85 mm or without
	Battery	1 × Lithium CR2
	Battery life	10 openings per day for 27 months
	Radio standard	IEEE 802.15.4 (2.4 GHz)
	Encryption (radio communication)	AES 128 bits
	Distance between device and hub	Up to 25m depending on the building environment
	Class of protection	IP 65*
	Operating temperature range	-20°C to 55°C*
	Relative humidity	< 85% (condensation-free)
	Status	LED (red/green/orange)
	Communication interfaces	Communication via radio (USB dongle) or micro-USB cable (accessory)
	Offline and Online operation modes	Aperio Online; Aperio Offline; OSS-standard Offline



For indoor use



It includes:

- 1 single knob cylinder with battery (Lithium~CR2)
- Optional fixing screw
- Knob tool can be ordered separately



Communicates with:

- RS485 Communication Hub
- Aperio IP Communication Hub
- Wiegand Interface (standard and~advanced~versions) Communication Hub

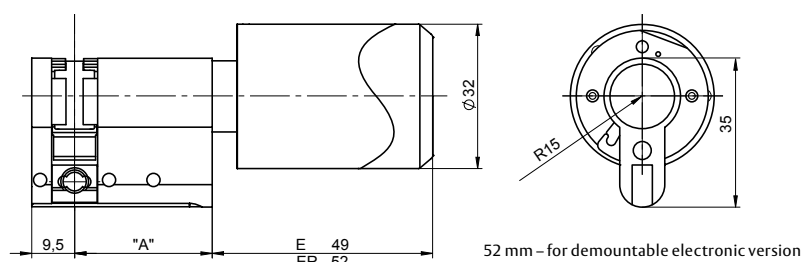


Smart Credential Handling:

Up to 1000 users can be granted access even if the EAC is temporarily down.

* The C100 is for indoor use; outdoor environments may affect product operability.

Dimensions in mm



Aperio C100 Wireless Single Knob Cylinder Euro profile

Ordering information*

E= Electronic knob; R= Removable type

White cells:
Default values (don't change the given values)

Coloured cells:
Choose the right value by looking at the different options in the illustration

Knob

7

E (eletronic outside)

8

ER (electronic removable outside) *

RFID technology

C

HF + BLE

B

Legic

Function

0

normal (Aperio Online and OSS Offline)

f

Aperio Online and Aperio Offline

Cylinder profile

0

Euro Profile

3

Swiss round 22mm

Screw length

-

without

0

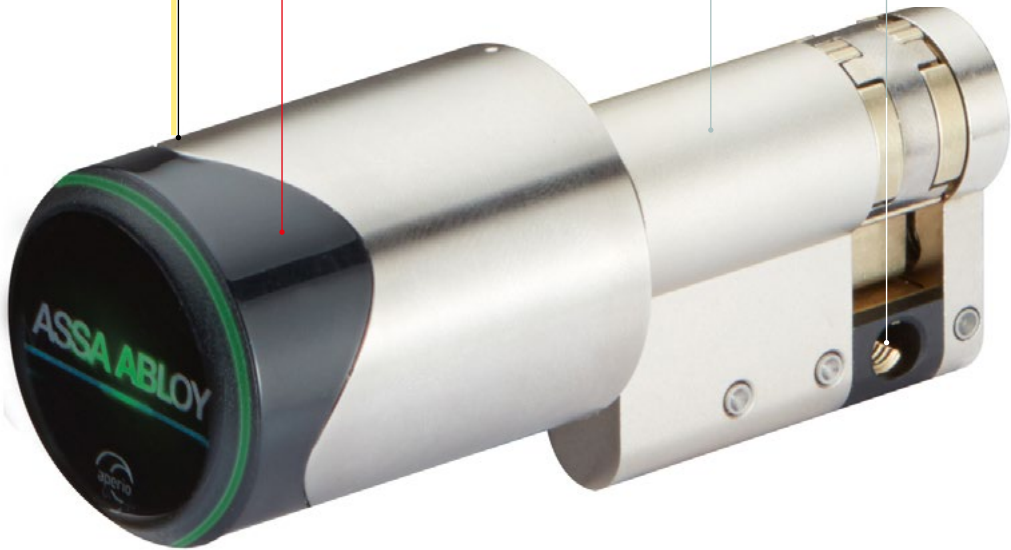
85 mm

1

60 mm

2

70 mm



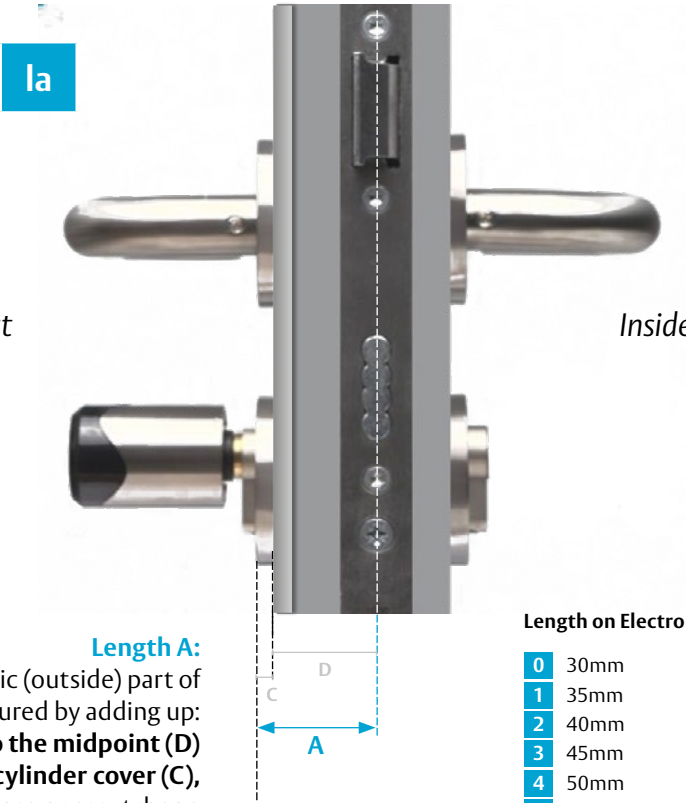
Please note the ordering information for the 'R' suffix on page 62

Aperio C100 Wireless Single Knob Cylinder Euro profile

Ordering information *

E= Electronic knob; R= Removable type

How to measure the cylinder length



la

Outside part

Inside part

Length A:
The length of the electronic (outside) part of the cylinder is measured by adding up: **outer doorleaf thickness to the midpoint (D)** + **dimension of the outside cylinder cover (C)**, e.g. rose or escutcheon

Length on Electronic side A

0	30mm	A	80mm
1	35mm	B	85mm
2	40mm	C	90mm
3	45mm	D	95mm
4	50mm	E	100mm
5	55mm	F	105mm
6	60mm	G	110mm
7	65mm	H	115mm
8	70mm	I	120mm
9	75mm		

Note:
If the resulting figure from adding C and D is not a round number (ending in 0 or 5), choose the immediately higher value for that figure (for example, if the sum of C and D, or E and F is 78mm, choose the value 80mm).
Security recommendation: the cylinder must not protrude more than 3mm from the fitting (dimension "C" on picture)

Ordering example

High Frequency and BLE						External cylinder 40mm			Without screw				
5	0	7	2	0	1	C	f	-	2	-	0	-	-
Electronic		Aperio Online/Offline					Euro profile						

Please note the ordering information for the 'R' suffix on page 62

Aperio® C100

Wireless Server Rack Cylinder

Euro profile

Technical information

ASSA ABLOY
Opening Solutions

Experience a safer
and more open world



The non-disruptive way to extend access control to server racks

The ASSA ABLOY Aperio C100 for server racks adds secure access control to almost any server cabinet. It is fitted without wiring or drilling the cabinet door, and works with almost any system via Online, Offline or OSS-standard offline integration.

Metal single knob cylinder
– for use indoors.

Main electronics (RFID + radio)
in the external knob – secure
electronics inside cylinder core.



Spring loaded fixed
position left or right
blocking cam.

Rubber sleeve available
for enhanced grip.

Inbuilt LED instantly
communicates if access
is granted or denied.



Easy integration

Aperio C100 works seamlessly with access control systems integrated with Aperio via the AADP protocol or Wiegand hub. No database integration required.



Quick installation

It only takes a few minutes to swap a mechanical cylinder for an Aperio C100.



Security

Depending on the rack cabinet's lock, door is automatically locked upon closing, increasing security.



Convenience

Aperio C100 reads industry-leading RFID credentials, as well as mobile (NFC and BLE).

Available in Euro profile only. SCAN and Swiss mechanical cylinders may be replaced with standard C100 single cylinders.

The standalone photo shows left-handed version.

Aperio C100 Wireless Server Rack Cylinder Euro profile

Technical information



Documents
and certificates

Technical data and features

①	Authentication	CARD/Mobile
	RFID technologies (based on reader type)	iCLASS, iCLASS SE, iCLASS Seos, MIFARE Classic, Mifare Classic SE, Mifare Ultralight, Mifare Plus, Mifare DESFire 0.6, Mifare DESFire EV1, Mifare DESFire EV2, Mifare DESFire EV3 (EV2 and EV3 only in Legacy mode), Mifare DESFire SE, PicoPass, ISO 14443A UID, ISO 14443B UID, ISO 15693 UID, LEGIC-only reader available
	RFID reading	UID / Sector / Block / Application / File / LEGIC® Segment Data – Depending on the RFID technology
	RFID reading range	Up to 4 cm
	Mobile technologies	Seos, STid and Gallagher-enabled mobile credentials via BLE and NFC Seos and DESFire mobile credentials in Apple Wallet and Google Wallet
✓	Approvals	CE, UKCA EN 15684:2012 (16B0AF30)
	Version	Cam position (45° left/45° right blocking) – to be specified when ordering
	Knob dimensions	44 × 32 mm (L × Ø) for standard electronics, 46,5 × 32mm (L × Ø) for demountable electronics
	Surface	Knob surface: stainless steel
	Cylinder length (LENGTH=A/LENGTH=B)	Available only in 30mm length with right- and left-handed variants
	Fixing screw	Without or 60mm
	Battery	1 × Lithium CR2
	Battery life	10 openings per day for 27 months
	Radio standard	IEEE 802.15.4 (2.4 GHz)
	Encryption (radio communication)	AES 128 bits
	Distance between device and hub	Up to 25m depending on the building environment
	Class or protection	IP 65*
	Operating temperature range	-20°C to 55°C*
	Relative humidity	< 85% (condensation-free)
	Status	LED (red/green/orange)
	Communication interfaces	Wireless communication (USB Dongle) or micro-USB Interface
	Offline and Online operation modes	Aperio Online; Aperio Offline; OSS-standard Offline



For indoor use



It includes:

- 1 single knob cylinder with battery (Lithium~CR2)
- Optional fixing screw
- Knob tool can be ordered separately



Communicates with:

- RS485 Communication Hub
- Aperio IP Communication Hub
- Wiegand Interface (standard and~advanced~versions) Communication Hub

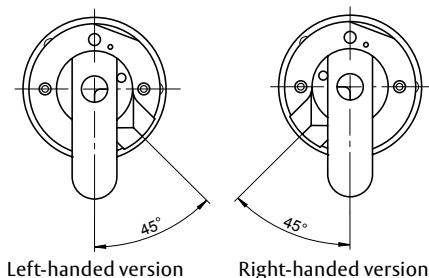
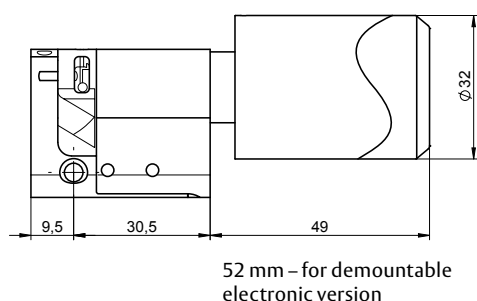


Smart Credential Handling:

Up to 1000 users can be granted access even if the EAC is temporarily down.

*The C100 is for indoor use; outdoor environments may affect product operability.

Dimensions in mm



Aperio C100 Wireless Server Rack Cylinder Euro profile

Ordering information *

External knob = Electronic

* Bestellinformation Variante R = Removable type
für die Länder Deutschland, Österreich und Schweiz

Anstelle des Bestell-Zusatzes "R" wird ein "D" verwendet:

E/MR	(eletronic outside/mechanical removable inside)	= E/MD
ER/MR	(electronic removable outside/mechanical removable inside)	= ED/MD
E/ER	(eletronic outside/electronic removable inside)	= E/ED
ER/ER	(electronic removable outside/electronic removable inside)	= ED/ED
ER/-	(electronic removable outside)	= ED/-

Knob

- 7 E (eletronic outside)
- 8 ER (electronic removable outside) *

RFID technology

- C HF + BLE
- B Legic

Function

- 0 normal (Aperio Online and OSS Offline)
- f Aperio Online and Aperio Offline

Version

- 3 right-handed
- 4 left-handed

Special Design

- 0 no screw
- 1 screw 60 mm

White cells:

Default values (don't change the given values)

Coloured cells:

Choose the right value by looking at the different options in the illustration

5	0	k	2	0	1	r	f	s	-	-	-	d	-	-
---	---	---	---	---	---	---	---	---	---	---	---	---	---	---



Ordering example

5	0	k	2	0	1	C	f	3	-	-	-	0	-	-
		Electronic outside					Aperio Online/Offline		High Frequency and BLE				right-handed version	no screw

Aperio C100 for glass doors

Meeting rooms, office doors or treatment suites:

Almost any glass door can now be equipped with a wireless access control device.

It takes just 2 minutes to replace a mechanical cylinder with an Aperio C100 electronic cylinder. ASSA ABLOY offers a choice of locksets for easy combination with Aperio cylinders. Contact your local representative.



Aperio® C100

Wireless Single Knob Cylinder

Scandinavian profile

Technical information

ASSA ABLOY
Opening Solutions

Experience a safer
and more open world

The non-disruptive way to extend access control

The ASSA ABLOY Aperio C100 is the quickest way to upgrade access control: It is fitted without wiring or drilling at the door and works with almost any system, via Online, Offline or OSS-standard offline integration.

Metal single knob cylinder
Scandinavian profile –
for use in indoors.

Main electronics (RFID + radio)
in the external knob – secure
electronics inside cylinder core.

Freely rotating lock cam.

Rubber sleeve available
for enhanced grip.

Inbuilt LED instantly
communicates if access
is granted or denied.



Easy integration

Aperio C100 works seamlessly with access control systems integrated with Aperio via the AADP protocol or Wiegand hub. No database integration required.



Quick installation

It only takes a few minutes to swap a mechanical cylinder for an Aperio C100.



Flexibility

Compatible with all Scandinavian mortise locks – in wooden, steel and tubular-frame doors. Secure sensitive assets by retrofitting lockers and cabinets.



Convenience

Aperio C100 reads industry-leading RFID credentials, as well as mobile (NFC and BLE).

Aperio C100 Wireless Single Knob Cylinder

Scandinavian profile

Technical information



Documents
and certificates

Technical data and features

①	Authentication	CARD/Mobile
	RFID technologies (based on reader type)	iCLASS, iCLASS SE, iCLASS Seos, MIFARE Classic, Mifare Classic SE, Mifare Ultralight, Mifare Plus, Mifare DESFire 0.6, Mifare DESFire EV1, Mifare DESFire EV2, Mifare DESFire EV3 (EV2 and EV3 only in Legacy mode), Mifare DESFire SE, PicoPass, ISO 14443A UID, ISO 14443B UID, ISO 15693 UID, LEGIC-only reader available
	RFID reading	UID / Sector / Block / Application / File / LEGIC® Segment Data – Depending on the RFID technology
	RFID reading range	Up to 4 cm
	Mobile technologies	Seos, STid and Gallagher-enabled mobile credentials via BLE and NFC Seos and DESFire mobile credentials in Apple Wallet and Google Wallet
✓	Approvals	CE, UKCA EN 15684:2012 (16B0AF30)
	Version	Fixed or demountable knob versions with RFID-reader
	Knob dimensions	42 × 32 mm (L × Ø) for standard electronics
	Surface	Knob surface: stainless steel
	Cylinder length (LENGTH=A/LENGTH=B)	Standard length 40 mm (including tail piece)
	Battery	1 × Lithium CR2
	Battery life	10 openings per day for 27 months
	Radio standard	IEEE 802.15.4 (2.4 GHz)
	Encryption (radio communication)	AES 128 bits
	Distance between device and hub	Up to 25m depending on the building environment
	Class of protection	IP 65*
	Operating temperature range	-20°C to 55°C*
	Relative humidity	< 85% (condensation-free)
	Status	LED (red/green/orange)
	Communication interfaces	Communication via radio (USB dongle) or micro-USB cable (accessory)
	Offline and Online operation modes	Aperio Online; Aperio Offline; OSS-standard Offline



For indoor use



It includes:

- 1 single knob cylinder with battery (Lithium CR2)
- Knob tool can be ordered separately



Communicates with:

- RS485 Communication Hub
- Aperio IP Communication Hub
- Wiegand Interface (standard and "advanced" versions) Communication Hub

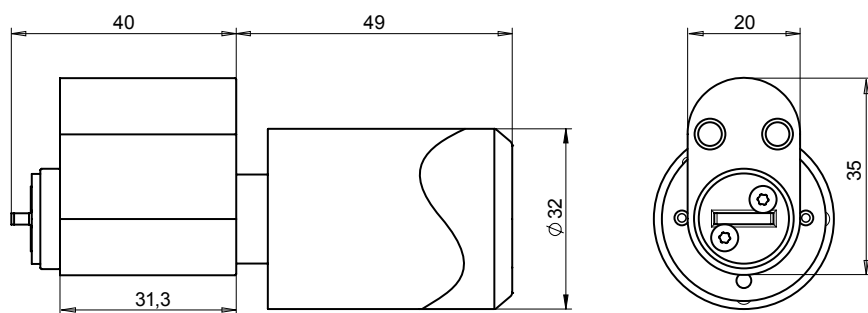


Smart Credential Handling:

Up to 1000 users can be granted access even if the EAC is temporarily down.

*The C100 is for indoor use; outdoor environments may affect product operability.

Dimensions in mm



Aperio C100 Wireless Single Knob Cylinder Scandinavian profile

Ordering information

External knob= Electronic



RFID technology

- C** HF + BLE
- B** Legic

Function

- 0** normal (Aperio Online and OSS Offline)
- f** Aperio Online and Aperio Offline

White cells:
Default values (don't change the given values)

Coloured cells:
Choose the right value by looking at the different options in the illustration

5	0	7	2	1	1	C	f	-	-	-	2	-	-	-
---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

Ordering example

5	0	7	2	1	1	C	f	-	-	-	2	-	-	-
---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

High Frequency
and BLE

Aperio Online/Offline

**Ab 2025 in
Deutschland, Österreich
und Schweiz verfügbar**

Aperio DR100 Wireless Reader

Comprehensive information on technical specifications, features, product drawings, and ordering details

Aperio® DR100

Wireless Wall Reader with Relays

ASSA ABLOY
Opening Solutions

Technical information

Experience a safer
and more open world

Robust access management for high traffic doors

The ASSA ABLOY Aperio DR100 is the quickest way to upgrade access control: It works with almost any system, via Online, Offline or OSS-standard offline integration

Secure installation:
relays on internal side

Configurable relay
options

Fully encrypted data
transmission for
enhanced security

Inbuilt LED instantly
communicates if access
is granted or denied

IP 65 makes it durable and
appropriate for outdoor
use



Flexibility

Universal compatibility with traditional
electromechanical locking devices



Easy integration

Aperio DR100 works seamlessly with access
control systems integrated to Aperio
via AADP protocol or the Wiegand hub
No database integration required



Easy installation

Easy surface-mounted, no-cut installation



Convenience

Aperio DR100 reads industry-leading
RFID credentials, as well as mobile
(NFC and BLE)





Aperio DR100 Wireless Wall Reader with Relays

Technical information



Documents
and certificates

Technical data and features

	Authentication	CARD/Mobile
	RFID technologies (based on reader type)	iCLASS, iCLASS SE, iCLASS Seos, MIFARE Classic, Mifare Classic SE, Mifare Ultralight, Mifare Plus, Mifare DESFire 0 6, Mifare DESFire EV1, Mifare DESFire EV2, Mifare DESFire EV3 (EV2 and EV3 only in Legacy mode), Mifare DESFire SE, PicoPass, ISO 14443A UID, ISO 14443B UID, ISO 15693 UID
	RFID reading	UID / Sector / Block / Application / File Segment Data – Depending on the RFID technology
	RFID reading range	Up to 4 cm
	Mobile technologies	Seos, STid and Gallagher-enabled mobile credentials via BLE and NFC Seos and DESFire mobile credentials in Apple Wallet and Google Wallet
	Approvals	CE, UKCA
	Dimensions	Reader: 140,8 x 45,5 x 32,5 mm (H x W x D) Relay: 150,8 x 45,5 x 27,5 mm (H x W x D)
	Surface	UV resistant ABS plastic
	Door leaf thickness	Up to 355,6 mm (14")
	Battery	Hard-powered: 12-24 VDC
	Radio standard	IEEE 802 15 4 (2 4 GHz)
	Encryption (radio communication)	AES 128 bits
	Distance between device and hub	Up to 25m depending on the building environment
	Class of protection	IP 65 makes it durable and appropriate for outdoor use
	Operating temperature range	-10°C to 60° C
	Relative humidity	93 % RH at 32° C
	Status	LED (red/green/orange)
	Door sensor information	Tamper detection Doors position (open/closed) Request to exit input
	Communication interfaces	Communication via radio (USB dongle) or micro-USB cable (accessory)
	Offline and Online operation modes	Aperio Online; Aperio Offline; OSS-standard Offline



For indoor and exterior use



It includes:

- 1 Reader module
- 1 Secure Relay module
- (4X) 4-20 Self Tapping screw
- 1 T8 Security Torx Bit
- 4-40 Security Torx screw
- Alcohol Swab
- Wire Sealing Grommet
- Wire Harness Extender



Communicates with:

- RS485 Communication Hub
- Aperio IP Communication Hub
- Wiegand Interface (Standard and advanced versions) Communication Hub



Smart Credential Handling:

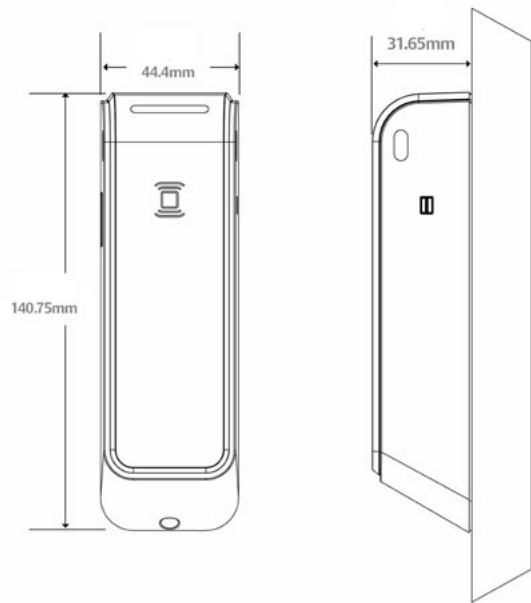
Up to 1000 users can be granted access even if the EAC is temporarily down

Aperio DR100 Wireless Wall Reader with Relays

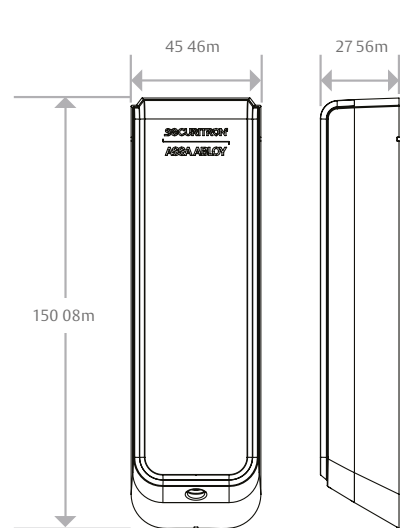
Technical information

Dimensions

Wall reader (outside)



Relay board (inside)



Aperio DR100 Wireless Wall Reader with Relays

Ordering information

Article code	Description
DR100C-BIP5XXXXX-EU	Aperio V3 Wall Reader with Relays IP65



Aperio KL100 Wireless Locker/Cabinet Lock

Comprehensive information on technical specifications, features, product drawings, and ordering details

Aperio® KL100

Wireless Locker / Cabinet Lock

Technical information

ASSA ABLOY
Opening Solutions

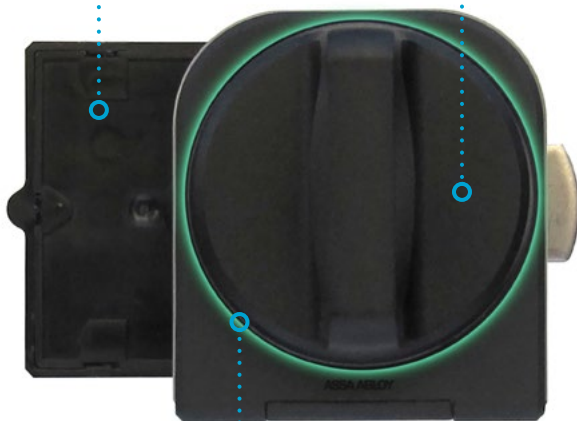
Experience a safer
and more open world

Wireless protection for your lockers and cabinets

The ASSA ABLOY Aperio KL100 is the easiest way to upgrade access control at many openings beyond doors. It is fitted without wiring or drilling the cabinet door and works with almost any system, via Online, Offline or OSS-standard offline integration.

Battery, located inside the door, is easy to replace in seconds with a single screw.

Discreet, with a minimal visual footprint and contemporary design.

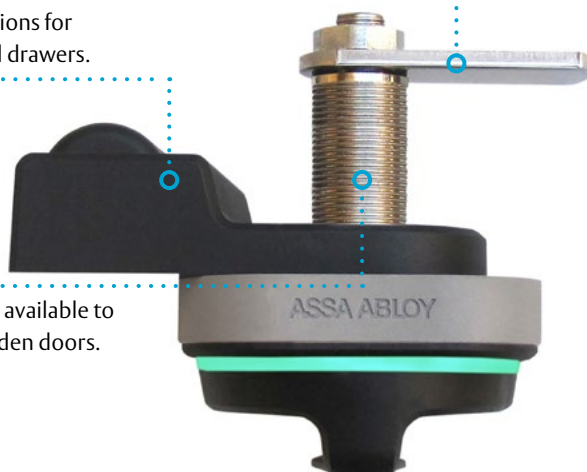


Inbuilt LED instantly communicates if access is granted or denied.

Four locking positions for both cabinets and drawers.

Four lock versions available to fit metal and wooden doors.

Several cams available.



Easy integration

Aperio KL100 works seamlessly with access control systems integrated with Aperio via the AADP protocol or Wiegand hub. No database integration required.



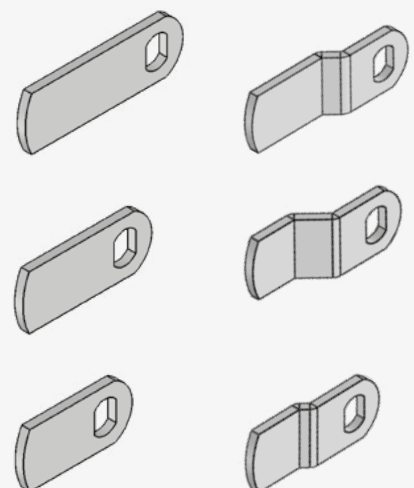
Quick installation

It only takes a few minutes to swap a mechanical cylinder for an Aperio KL100.



Flexibility

Ideal for retrofit projects, KL100 allows you to tailor your solution with a wide range of cam types.











Aperio KL100 Wireless Locker / Cabinet lock

Technical information



Documents
and certificates

Technical data and features

①	Authentication	CARD/Mobile
	RFID technologies	iCLASS, iCLASS SE, iCLASS Seos, MIFARE Classic, Mifare Classic SE, Mifare Ultralight, Mifare Plus, Mifare DESFire 0.6, Mifare DESFire EV1, Mifare DESFire EV2, Mifare DESFire EV3 (EV2 and EV3 only in Legacy mode), Mifare DESFire SE, PicoPass, ISO 14443A UID, ISO 14443B UID, ISO 15693 UID
	RFID reading	UID / Sector / Block / Application / File / Depending on the RFID technology
	RFID reading range	Up to 4 cm
	Mobile technologies	Seos, STid and Gallagher-enabled mobile credentials via BLE and NFC Seos and DESFire mobile credentials in Apple Wallet and Google Wallet
✓	Approvals	CE, UKCA
	Version	Two lengths: Short and long cylinders to fit metal and wooden doors Two hole diameters: 19mm and 22mm
	Dimensions	Short: 57 × 63 × 58,5 mm (Exterior Dimensions H × W × D) Long: 57 × 63 × 75 mm (Exterior Dimensions H × W × D)
	Surface	Cover: black and grey
	Battery	1 × Lithium CR123A
	Battery life	25 openings per day for 106 months
	Emergency power	Via micro-USB socket
	Radio standard	IEEE 802.15.4 (2.4 GHz)
	Encryption (radio communication)	AES 128 bits
	Distance between device and hub	Up to 25m depending on the building environment
	Class of protection	IP54
	Operating temperature range	0°C to 55°C
	Relative humidity	< 85% (condensation-free)
	Status	LED (red/green/orange)
	Configuration interface	Communication via radio (USB dongle) or micro-USB cable (accessory)
	Offline and Online operation modes	Aperio Online; Aperio Offline; OSS-standard Offline



For indoor use



It includes:

- One KL100 unit with battery (Lithium CR123A)
- One cam
- Installation instructions
- Accessories



Communicates with:

- RS485 Communication Hub
- Aperio IP Communication Hub
- Wiegand Interface (standard and advanced versions) Communication Hub



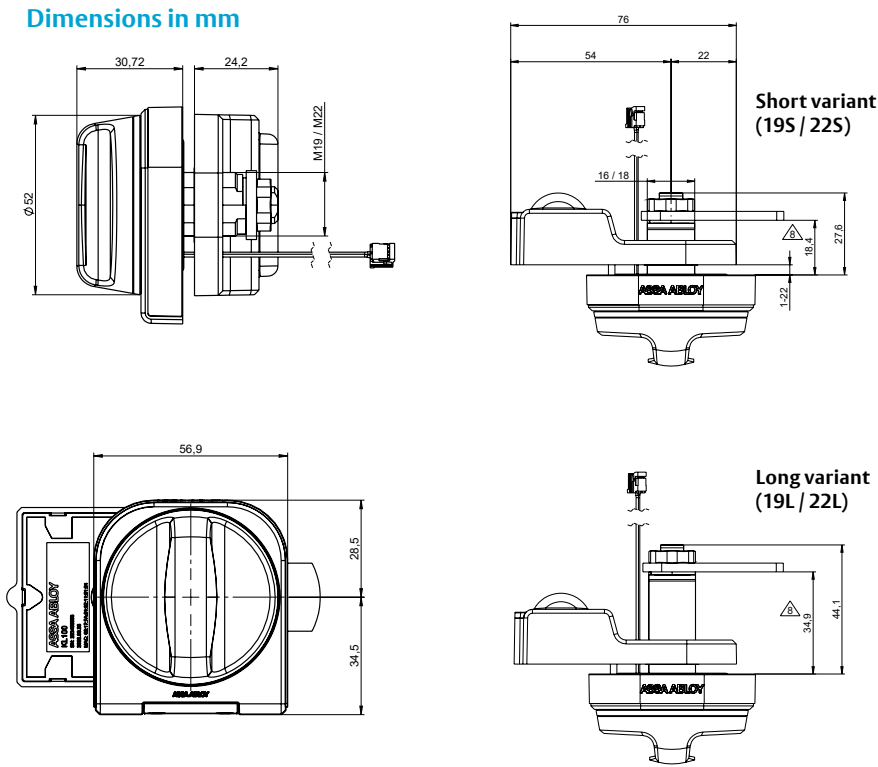
Smart Credential Handling:

Up to 1000 users can be granted access even if the EAC is temporarily down.

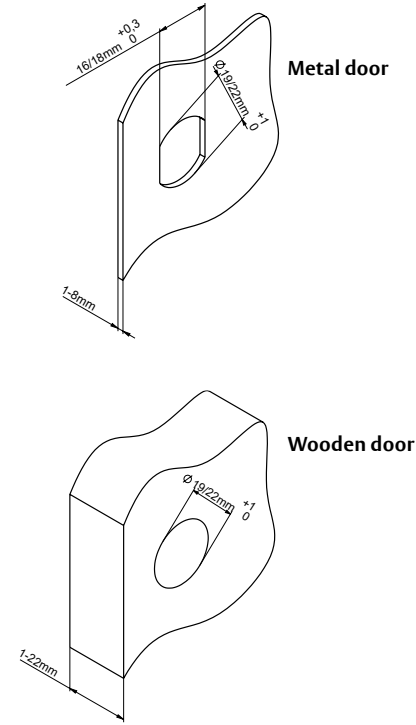
Aperio KL100 Wireless Locker / Cabinet lock

Technical information

Dimensions in mm



Drilling dimensions



Ordering information

Article code	Shaft length	Shaft thickness
AP-KL100-22L	Long version	22 mm
AP-KL100-22S	Short version	22 mm
AP-KL100-19L	Long version	19 mm
AP-KL100-19S	Short version	19 mm

Aperio P100 Wireless Padlock

Comprehensive information on technical specifications, features, product drawings, and ordering details

Ab 2025 in
Deutschland, Österreich
und Schweiz verfügbar



Aperio® P100 Wireless Padlock

Technical information

ASSA ABLOY
Opening Solutions

Experience a safer
and more open world

Convenient and flexible protection for sensitive indoor and outside areas

The ASSA ABLOY Aperio P100 is the quickest way to upgrade access control: It is fitted without wiring or drilling and works with almost any system, via Online, Offline or OSS-standard offline integration.

Ab 2025 in
Deutschland, Österreich
und Schweiz verfügbar

Robust design for
multiple applications

IP 66 makes it durable
and appropriate for
outdoor use

Easy to operate

Main electronics (RFID + radio)
in the knob – secure electronics
inside cylinder core.



Flexibility

P100 protects fences, gates, storage cages, racks, containers, tool cabinets and other non-standard openings.



Easy integration

Aperio P100 works seamlessly with access control systems integrated with Aperio via the AAPD protocol or Wiegand hub. No database integration required.



Easy installation

It takes seconds to swap a mechanical padlock for an Aperio P100.



Convenience

Aperio P100 reads industry-leading RFID credentials, as well as mobile (NFC).

Aperio P100 Wireless Padlock

Technical information



Documents
and certificates

Technical data and features

	Authentication	CARD/Mobile
	RFID technologies (based on reader type)	iCLASS, iCLASS SE, iCLASS Seos, MIFARE Classic, Mifare Classic SE, Mifare Ultralight, Mifare Plus, Mifare DESFire 0.6, Mifare DESFire EV1, Mifare DESFire EV2, Mifare DESFire EV3 (EV2 and EV3 only in Legacy mode), Mifare DESFire SE, PicoPass, ISO 14443A UID, ISO 14443B UID, ISO 15693 UID
	RFID reading	UID / Sector / Block / Application / File Segment Data – Depending on the RFID technology
	RFID reading range	Up to 4 cm
	Mobile technologies	NFC
	Approvals	CE, UKCA
	Dimensions	Body: 111,1 mm x 53,5 mm (H x W) - 42,5 Ø Shackle: 63,3 mm X 39,5 mm (H x W) - 8,7 Ø
	Surface	Cover case: PA 66, 20% GF. Black colour
	Battery	1 x Lithium CR2
	Battery life	10 openings per day for 27 months
	Radio standard	IEEE 802.15.4 (2.4 GHz)
	Encryption (radio communication)	AES 128 bits
	Distance between device and hub	Up to 25m depending on the building environment
	Class of protection	IP 66
	Operating temperature range	-20°C to 55°C
	Relative humidity	< 85% (condensation-free)
	Communication interfaces	Communication via radio (USB dongle) or micro-USB cable (accessory)
	Offline and Online operation modes	Aperio Online; Aperio Offline; OSS-standard Offline



For indoor and exterior use



It includes:

- 1 Padlock assembly with battery (Lithium CR2)
- Installation instructions
- Battery change tool



Communicates with:

- RS485 Communication Hub
- Aperio IP Communication Hub
- Wiegand Interface (standard and "advanced" versions) Communication Hub



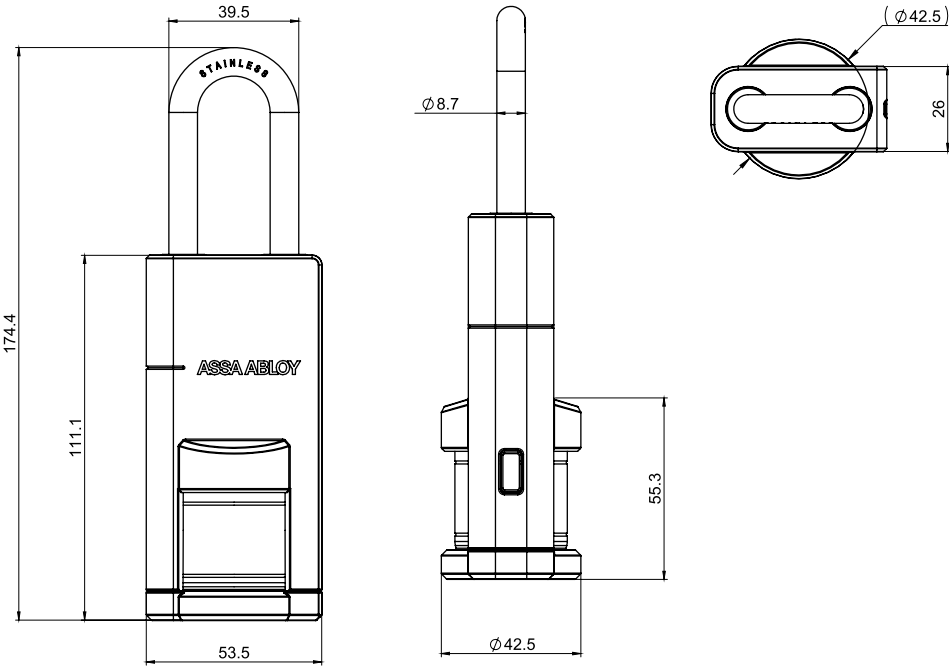
Smart Credential Handling:

Up to 1000 users can be granted access even if the EAC is temporarily down.

Aperio P100 Wireless Padlock

Technical information

Dimensions in mm



Aperio P100 Wireless padlock

Ordering information

Article code	Description
P100-100	Aperio V3 Padlock IP66

A man with dark hair and a beard, wearing a blue blazer over a white shirt, is standing in a modern office hallway. He is holding a smartphone in his right hand and looking down at it. The hallway has light-colored wooden doors and glass walls. A large green plant is visible on the right side of the frame. The ceiling is white with a small white device mounted on it.

Aperio Communication Hub

Comprehensive information on technical specifications, features, product drawings, and ordering details

Aperio®

Communication Hub

Technical information

ASSA ABLOY
Opening Solutions

Experience a safer
and more open world

Communication happens in real time

Control up to 64 doors with Aperio communication hubs for indoor use. Easy and cost-effective to install, the hub is the nexus between Aperio devices and the EAC system.

Communication between hubs and Aperio devices happens in real time. Encrypted radio communication.

Integrated antenna with the option to mount an external antenna.

The hubs are easy and cost-effective to install.

Built-in tamper switch. Detection of removal from bracket.

The range of transmission to Aperio devices is up to 25 m.

Event Log in the hub.

For standard electrical installation boxes with 60mm fixing screw distance. They fit in standard flush-mounted boxes.

The user receives a quick overview of the status of the hub and locks connected via an LED signal pattern (communication, activation, status, etc).

Firmware upgrade possibilities.



AH40 Gen5 Communication Hub

- For connection to EAC system
- TCP/IP communication encrypted using TLS 1.1/1.2
- Control up to 64 locks
- PoE (Power over Ethernet) or external power supply

AH30 Gen5 Communication Hub

- Connection to the EAC system via RS485 bus (addressable)
- Control up to 16 locks

AH20 Standard Wiegand Gen5 Communication Hub

- 1-to-1 communication
- For connection to EAC system via Wiegand interface
- Compatible with most access control systems – no protocol integration needed

AH20 Advanced Wiegand Gen5 Communication Hub

- 1-to-1 communication
- For connection to EAC system via Wiegand interface
- Compatible with most access control systems – no protocol integration needed
- Four specific function relay outputs: These relay outputs can be connected to the controller.

Aperio Communication Hub

Technical information



Documents
and certificates

Technical data and features		Model name			
		AH40 Gen5	AH30 Gen5	AH20 Standard Gen5	AH20 Advanced Gen5
✓	Approvals	CE, ETL, FCC, IC, C-Tick, CB, UK CA	CE, ETL, FCC, IC, C-Tick, UK CA	CE, ETL, FCC, IC, C-Tick, UK CA	CE, ETL, FCC, IC, C-Tick, UK CA
	Safety and emissions	IEC 62368-1:2014, EN 62368-1:2014 + A11:2017, UL/CSA 62368-1:2014, EN 301 489-1 V2.1.1, EN 301 489-17 V3.2.0, EN 300 328 V2.2.2, EN 50130-4:2011 + A1:2014, EN 62311, FCC 47CFR Part 15 subpart B and subpart C, ISSED RSS-247 and ICES-003, AS/NZS 4268			
	Connections	IP connection	RS485	Wiegand	Wiegand
	Doors integratable	64	16	1	1
↔	Dimensions	82 × 82 × 37 mm (H × W × D)			
	Required power supply	8-24 VDC or Power over Ethernet (PoE) PoE: IEEE 802.3af compliant class 1 Powered device (PD) External Power supply: The power supply is able to deliver minimum 1.2W. The power supply shall be 3 A over current protected.	8 – 24V, DC 0.8W	8 – 24V, DC 0.8W	8 – 24V, DC 2W
	Relay ratings	n/a	n/a	n/a	4 × 30VDC/15W resistive load. The messages are fixed as follows: DPS (Door Position), RX (Request to exit), Battery Alarm Output, Tamper Alarm/ Lock Jammed Output.
((()))	Radio standard	IEEE 802.15.4 (2400 – 2483,5MHz), 16 channels (11-26)	IEEE 802.15.4 (2400 – 2483,5MHz), 16 channels (11-26)	IEEE 802.15.4 (2400 – 2483,5MHz), 16 channels (11-26)	IEEE 802.15.4 (2400 – 2483,5MHz), 16 channels (11-26)
	Encryption (radio communication)	AES 128 bits			
	Receiver sensitivity	-100 dBm			
	Wireless operating range	Range of up to 25m			
((()))	Internal antenna	2 cross polarized dipoles			
	External antenna	One reverse polarity SMA external antenna connector. AH40 is certified for use with ASSA ABLOY external antenna AH-ANTENNA-1. If other external antenna is used it must be of same type (dipole) and not have larger antenna gain than 3.6 dBi.			
	Class of protection	IP 20			
	Tamper detection	Yes. Tamper switch detects removal from wall bracket. Signal to the system via communication protocol.	Yes. Tamper switch detects removal from wall bracket. Signal to the system via communication protocol.	Yes. Not functional – for future use.	Yes. Tamper switch detects removal from wall bracket. Signal to the system via wired relay output.
	Operating temperature range	5°C to 35°C			
	Relative humidity	Less than 95% (non-condensing)			
	Status	LED (red/green/orange)			

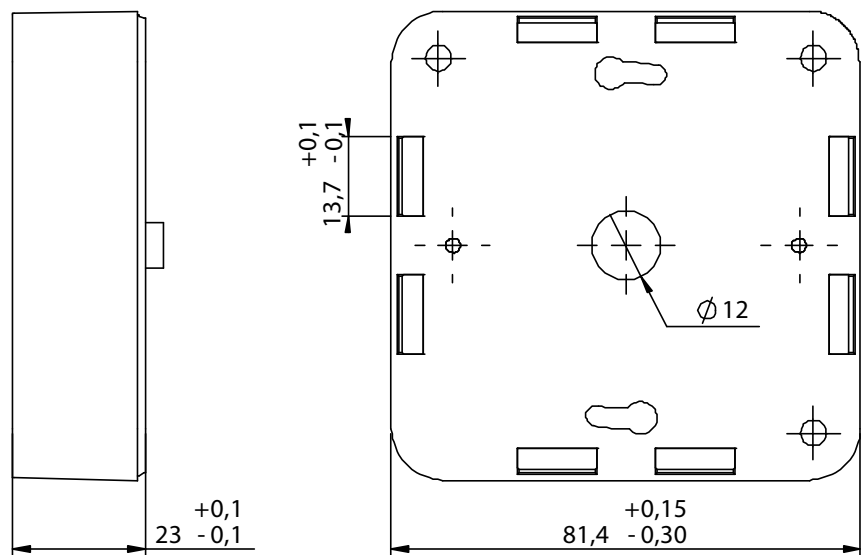


It includes:

- 1 hub with installation instructions
- Fixing screws to mount hub to wall housing
- Wall mount bracket

Aperio Communication Hub

Technical information



Aperio Communication Hub

Ordering information

Standard Aperio hubs

Description	Door control	Article code
Aperio Wiegand Hub – Standard Gen 5	1-to-1 communication	AH20-WIESTD_G5
Aperio Wiegand Hub – Advanced Gen 5	1-to-1 communication	AH20-WIEADV_G5
Aperio RS485 Hub Gen5	Up to 16 doors	AH30-RS485_G5
Aperio Hub IP AH40 Gen5	Up to 64 doors	AH40-IP_G5

Aperio hubs for Mercury partners

Choose your Hub version and **complete it (+)** with the code for Mercury partner

Ordering example:

Hub IP 1:64 Mercury for Genetec: [Ordering number: AH40-IP_G5](#)[MS](#)

Description	Door control	Article code	+	Code	Mercury partner
Hub RS485 1:16 Mercury	Up to 16 doors	AH30-RS485_G5		M1	SECURITY
Hub IP 1:64 Mercury	Up to 64 doors	AH40-IP_G5		M2	HONEYWELL
				M3	LENEL
				MA	DHS, KERI Systems
				MJ	JCI
				MP	Avigilon, Motorola, PLASEC
				MR	MIDPOINT
				MS	Genetec
				MU	S2 (Lenel)
				NA	ACRE (RS2, Identocard, Open Options, Feensics, Vanderbilt)
				NB	BRIVO
				NC	IDCUBE
				ND	TDS (ACRE)
				NE	Matrix (ACRE)

The Aperio Mercury partners list is constantly growing
If you don't find your EAC system provider, contact your ASSA ABLOY representative

The ASSA ABLOY Group is the global leader in access solutions. Every day, we help billions of people experience a more open world.

ASSA ABLOY Opening Solutions leads the development within door openings and products for access solutions in homes, businesses and institutions. Our offering includes doors, door and window hardware, locks, access control and service.

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