

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).

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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

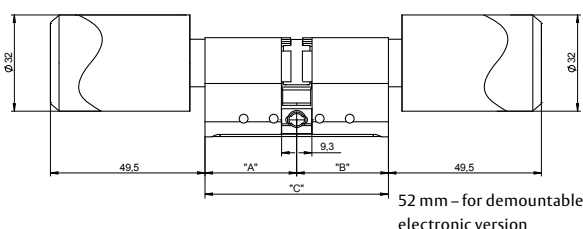


Smart Credential Handling:

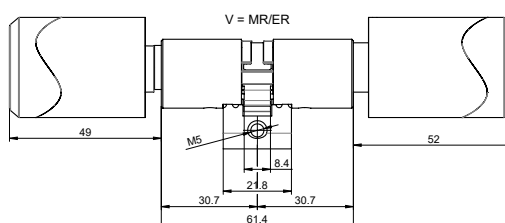
Up to 1000 users can be granted access even if the EAC is temporarily down.

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

Euro profile cylinder (Dimensions in mm)



Swiss profile cylinder (Dimensions in mm)



ASSA ABLOY Opening Solutions EMEA
Digital and Access Solutions
Dukes Court
Duke Street
Woking GU21 5BH
United Kingdom