Digital Access Solutions

For Wireless Sliding Door Application

Contents

Aperio® Technology

Aperio® Overview

Aperio is a new technology developed to complement new and existing electronic access control systems; providing end users with a simple, intelligent way to upgrade the controllability and the security level of their premises.

The heart of Aperio is a short distance wireless communication protocol; designed to link an online electronic access control.

Application

An access control system is standard equipment for companies and public administrations and provides buildings with a very high standard of security. However, installing access control doors is very expensive due to the extensive wiring required. This is why access control systems often only cover doors with very high security requirements.

All other doors have mechanical locks and therefore cannot be monitored and managed. If a master key is lost, there can be a major security risk – not a satisfactory set of circumstances for security officers.

This is where Aperio technology comes in. Doors merely need to be equipped with wireless Aperio battery-powered cylinders, escutcheons or locks with integrated RFID readers and linked to the access control system online via a communications hub. ASSA ABLOY's Aperio technology allows security and facility managers to conveniently and cost effectively increase the number of doors that can be monitored.

Aperio's HID genuine certified technology supports a range of credentials including iCLASS, MIFARE, DESFire, SEOS, Legic. Supports the following RFID technologies: MIFARE Classic®, MIFARE Ultralight®, MIFARE® DESFire®, MIFARE Plus®, MIFARE® SE, MIFARE® DESFire® SE; iCLASS SE; iCLASS Seos®, iCLASS Seos Elite.

Key Features

**Affordable online door control of internal doors**
- Few components
- Very easy installation
- No changes to existing access control installations

Extends existing access control system
- Connects over standard interface
- No separate management software:
  - Uses existing access control system management software
- No change of cards

Enhances security for internal doors
- Eliminates key management issues
- Authorisation changes in real time
- Encrypted communication
- Audit trails and time zones through existing system

Control Panel

Wired access control door   Aperio enabled door
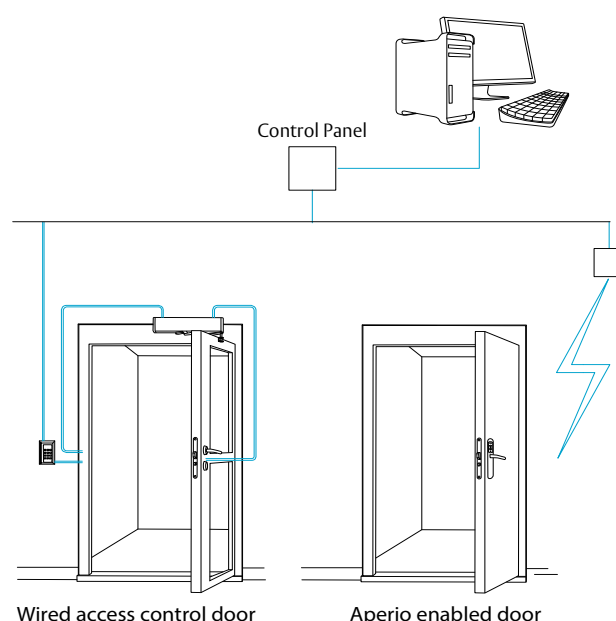
H100 Handle

The new Aperio® H100 packs the power and flexibility of wireless access control into one slim, cleverly designed, battery-powered door handle. With easy retrofitting to almost any interior door and comprehensive RFID support, the new Aperio® H100 handle makes it cost-effective to boost security for sensitive offices, storerooms, archives, meeting rooms and more.

Key Features

- The easiest way to add access control to a mechanical lock without drilling

- Robust, wireless device designed for high-traffic environments

- Compatible with Australian mortice lock (8mm)

- For wooden, steel and tubular-frame doors (and glass doors with standard lock cases)

- Keep your existing mechanical cylinder

- Straightforward integration with third-party access control systems

- Works with an online system or as an offline lock

- Discrete handle with minimum footprint and contemporary design

- LED for instant status visualisation

- Takes one screw to replace handle batteries

- Supports the following RFID technologies: MIFARE Classic®, MIFARE Ultralight®, MIFARE® DESFire®, MIFARE Plus®, MIFARE® SE, MIFARE® DESFire® SE; iCLASS SE; iCLASS Seos®, iCLASS Seos Elite

H100 Handle
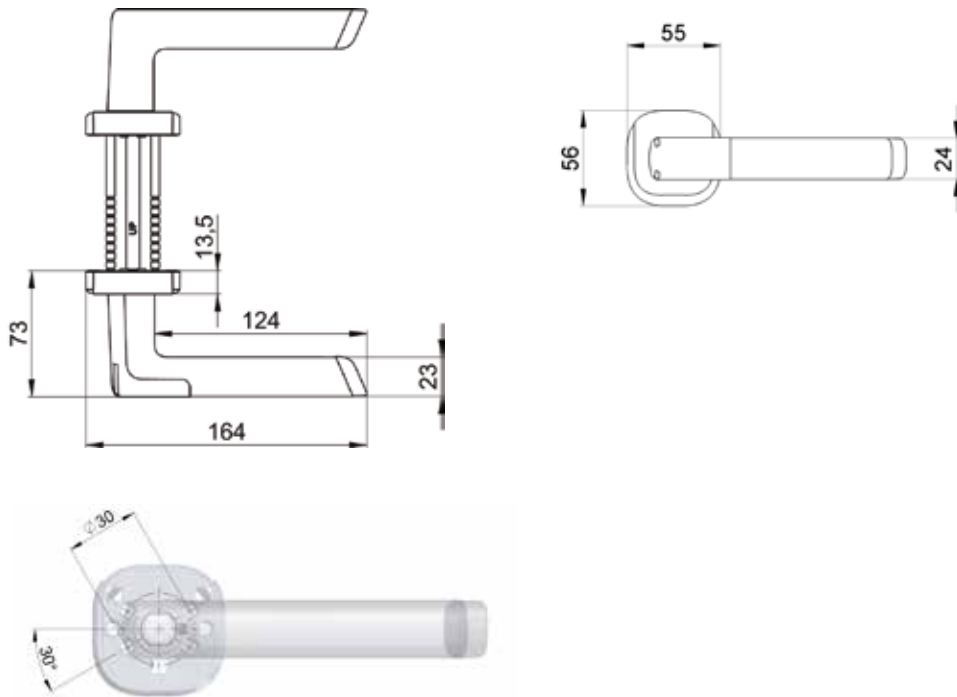
H100 Technical Information

Battery type	1 x Lithium CR123A
Battery lifetime	>40,000 cycles High Frequency Multiclass: 30 openings per day for 50 months
Radio standard	IEEE 802.15.4 (2.4 GHz)
Encryption (radio communication)	AES 128 bits
Distance between the RFID Reader and hub	Up to 25m depending on the building environment
RFID technologies (Based on reader type)	High Frequency Multiclass : iCLASS®/ISO 14443B; iCLASS® Seos; MIFARE™ Classic; MIFARE™ Plus; MIFARE™ DESFire™ EV1
RFID reading	UID / Sector / Block / Application / File
RFID reading range	< 4cm
Class of protection	IP42
Operating temperature	0°C to 55°C
Relative humidity	< 85% (condensation-free)
IP-degree	IP 65
Authentication	One level of authentication - CARD only
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; Aperio® Standard OSS Offline
Approvals	CE, EN1906: 26-B010B RCM

Ordering Information

Product Description	Part Number
Aperio H100 Handle, Right, 8mm Spindle, Satin Pearl, Mobile Access	H100B8R-SC-AU
Aperio H100 Handle, Right, 8mm Spindle, Satin Pearl, Mobile Access with 3772 Mortice Lock	H100B8R-SC-AU-B
Aperio H100 Handle, Left, 8mm Spindle, Satin Pearl, Mobile Access	H100B8L-SC-AU
Aperio H100 Handle, Left, 8mm Spindle, Satin Pearl, Mobile Access with 3772 Mortice Lock	H100B8L-SC-AU-B

Accessories

Product Description	Part Number
Aperio USB Firmware Adaptor for use in Battery Compartment	AH100-010
H100 Distance Ring for inner doors thinner than 35mm	AH100-020
U-Handle or RTD Adapter (set of 2 - Battery Holder End Cap & Dummy End Cap) - Satin Pearl	AH100-002
H100 DDA Grip for Disability Access	AH100-005
Kit comprising AH100-001 'U-Handle' Satin Chrome & AH100-005 DDA Grip	AH100-006
Kit comprising AH100-001 'U-Handle' Satin Pearl & AH100-005 DDA Grip	AH100-106
H100 530 Latch 8mm plus Adaption Plate - Small, 60mm Backset	AH100-085
H100 530 Latch 8mm plus Adaption Plate - Large, 60mm Backset	AH100-086
H100 530 Latch 8mm plus Adaption Plate - Small, 70mm Backset	AH100-095
H100 530 Latch 8mm plus Adaption Plate - Large, 70mm Backset	AH100-096
H100 Cylinder Escutcheon - Satin Chrome	AH100-070
H100 Cylinder Escutcheon - Satin Pearl	AH100-071
Aperio Hub 1:16 RS485 Hub	AH30-3-0
Aperio 1:64 IP (Ethernet) Hub	AH40-4-0

C100 Knob Cylinder

Key Features

- Communication from hub via RS485 bus to the Online Access Control System (addressable) - access decision in the EAC system

- Compatible with Australian 507 Oval, 201 Rim and 8466 Kawneer Cylinders

- Main electronics (RFID + radio) in the outside knob - secure electronics inside cylinder core

- Freely rotating lock cam

- Override Credentials: Up to 10 override credentials can be stored for an emergency access in case of failure or no communication with the access control or the hub

- Smart Credential Handling: In addition to the override credentials, the last valid credentials (up to1000) can be cached automatically and for a limited time (up to 30 days), so that an opening can still be made without the intervention of the administrator

- LED for status visualisation (red/green/orange)

- Works with an online system or as an offline lock

- The C100 also now provides Mobile Access for use with Smart Phone Credentials.

- Supports the following RFID technologies: MIFARE Classic®, MIFARE Ultralight®, MIFARE® DESFire®, MIFARE Plus®, MIFARE® SE, MIFARE® DESFire® SE; iCLASS SE; iCLASS Seos®, iCLASS Seos Elite

Scope of delivery

- 1 single knob cylinder with battery (Lithium CR2) and installation instructions

- Screws and fixing material

- Battery change tool

- X7 Cam fitted, A Cam supplied

C100 Knob Cylinder

C100 201 Cylinder

C100 Kawneer Cylinder

C100 Technical Information

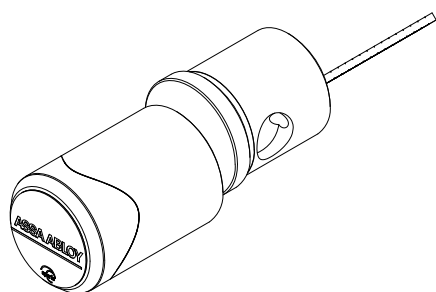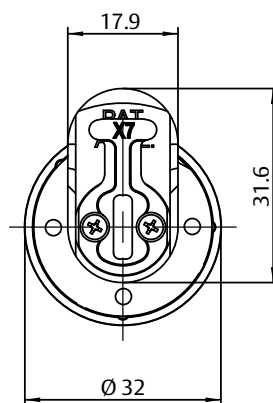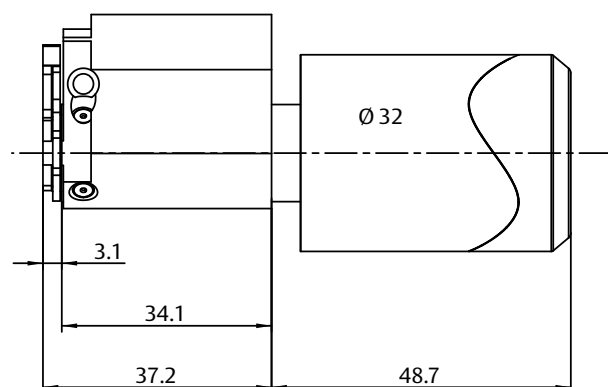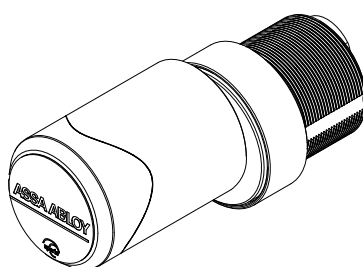|	
Battery type	1 x Lithium CR2
Battery lifetime	<30,000 cycles (max 2 years)
Radio standard	IEEE 802.15.4 (2.4GHz)
Encryption	AES 128 Bit
Wireless range: Cylinder to Hub	5-25m depending on location of Hub & environment
RFID technology**	MIFARE Classic®, MIFARE Ultralight®, MIFARE® DESFire®, MIFARE Plus®, MIFARE® SE, MIFARE® DESFire® SE; iCLASS SE; iCLASS Seos®, iCLASS Seos Elite
RFID reading	UID / Sector / Block / Application / File
Card reading range	< 4cm
Operating temperature	-20° to +55°C
Knob colour	Black / Satin Chrome
Cylinder Colour	Satin Chrome
Cylinder format	Lockwood Australian oval 570 series
Door thickness	Suits standard doors up to 50mm
Approvals	CE and RCM
Status	LED (red/green/orange)

Ordering Information

Product Description	Part Number
Aperio C100 V3 Cylinder, with Mobile Access (BLE), to suit Lockwood 570 series cylinder	**C103BHFASS**
Aperio C100 V3 Cylinder, with Mobile Access (BLE), to suit Lockwood 201 series cylinder	**C103BHF201SS**
Aperio C100 V3 Cylinder, with Mobile Access (BLE), to suit Lockwood 8466 Kawneer cylinder	**C103BHFKAWSS**

Accessories

Product Description	Part Number
Aperio Hub 1:16 RS485 Hub	**AH30-3-0**
AH40 Aperio 1:64 IP (Ethernet) Hub	**AH40-4-0**

P100 Padlock

Key Features

- Communication from hub via RS485 bus to the Online Access Control System (addressable) - access decision in the EAC system

- Main electronics (RFID + radio) in the outside knob - secure electronics inside cylinder core

- Freely rotating lock cam

- Override Credentials: Up to 10 override credentials can be stored for an emergency access in case of failure or no communication with the access control or the hub

- Smart Credential Handling: In addition to the override credentials, the last valid credentials (up to1000) can be cached automatically and for a limited time (up to 30 days), so that an opening can still be made without the intervention of the administrator

- LED for status visualisation

- Works with an online system or as an offline lock

- The P100 also now provides Mobile Access for use with Smart Phone Credentials.

- Supports the following RFID technologies: MIFARE Classic®, MIFARE Ultralight®, MIFARE® DESFire®, MIFARE Plus®, MIFARE® SE, MIFARE® DESFire® SE; iCLASS SE; iCLASS Seos®, iCLASS Seos Elite
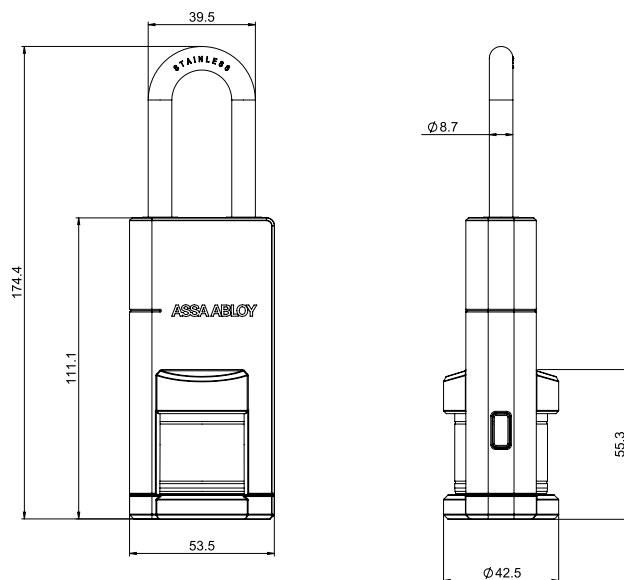
Scope of delivery

- 1 Padlock assembly with battery inserted and install instructions

- Battery change tool

P100 Padlock

P100 Technical Information

Battery type	1 x Lithium CR2
Battery lifetime	<30,000 cycles (max 2 years)
Radio standard	IEEE 802.15.4 (2.4GHz)
Encryption	AES 128 Bit
Wireless range: Cylinder to Hub	5-25m depending on location of Hub & environment
RFID technology**	MIFARE Classic®, MIFARE Ultralight®, MIFARE® DESFire®, MIFARE Plus®, MIFARE® SE, MIFARE® DESFire® SE; iCLASS SE; iCLASS Seos®, iCLASS Seos Elite
RFID reading	UID / Sector / Block / Application / File
Card reading range	<4cm
Operating temperature	-20° to +55°C
IP-degree	IP 66
Case Colour	Black
Approvals	CE and RCM

Ordering Information

Product Description	Part Number
Aperio P100 V3, Padlock with Mobile Access (BLE), IP66	**P100B-100**
Aperio P100 V3 Padlock, with chain and clamp and Mobile Access (BLE), IP66	**P100B-200**

Accessories

Product Description	Part Number
Aperio Hub 1:16 RS485 Hub	**AH30-3-0**
AH40 Aperio 1:64 IP (Ethernet) Hub	**AH40-4-0**

AU100 Series Escutcheon

ASSA ABLOY's Aperio® technology is leading the evolution of Online Wireless Door Locks. The new AU100 is a fully commercial grade digital lockset that offers the durability and quality that is synonymous with ASSA ABLOY.

Aperio is well known to provide a cost effective migration to an online electronic access control door. ASSA ABLOY's AU100 is now fully retrofit-able with Lockwood mortice variants without modification to the mortice whatsoever.

In addition, for the first time the internal lever and door position can now be wirelessly monitored. A capacitive keypad and proximity reader are also included in the one lock.

Sophisticated battery powered technology communicates wirelessly to a hub. The hub is then wired directly to the access control system and enables standard online access control functionality at significantly reduced costs to that of a hard wired door.

The AU100 enables high frequency entrance doors to operate for two years on a standard set of batteries; maintaining remote opening functions of typically 5 seconds communication time between the Aperio lock and the access control system throughout the battery life.

The AU100 also now provides Mobile Access for use with Smart Phone Credentials.

The AU100 features ultra-smooth lever action provided by the ergonomic Lever: 77A. Designed to be compliant with the Australian Disabled Door Act, the AU100 has undergone severe vandal testing and has a strength rating of up to SL8.

This locks sets the benchmark for premium wireless digital locking with its strong vandal proof keypad.
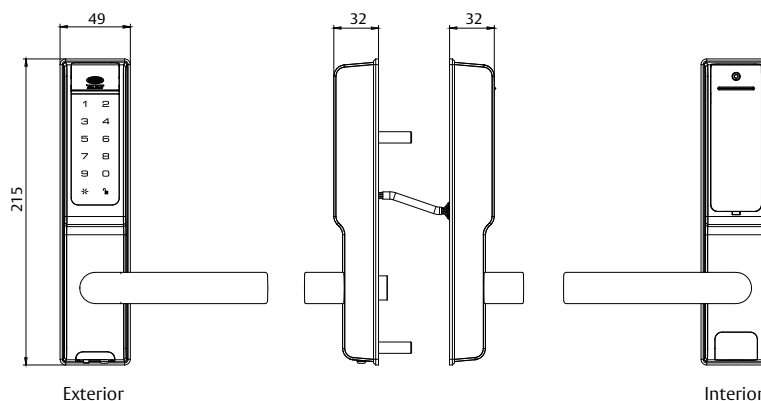
AU100 Series Escutcheon

The AU100 is available in a range of form factors including: the popular 530 latch option (non key override) and 60mm and 30mm backset variants.
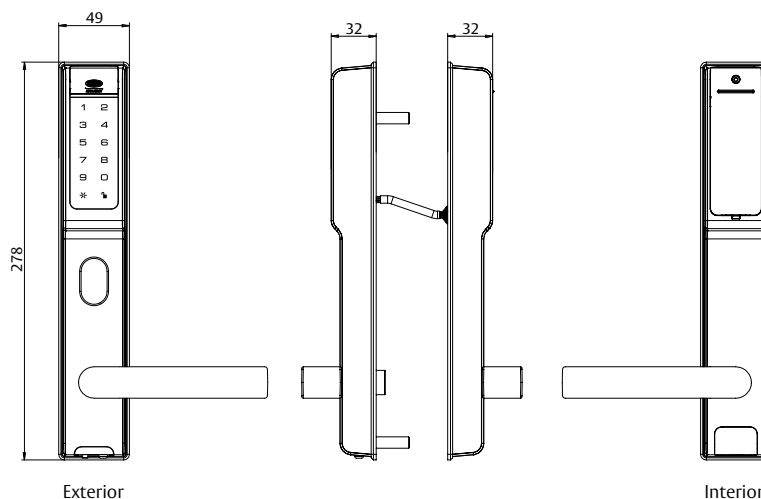
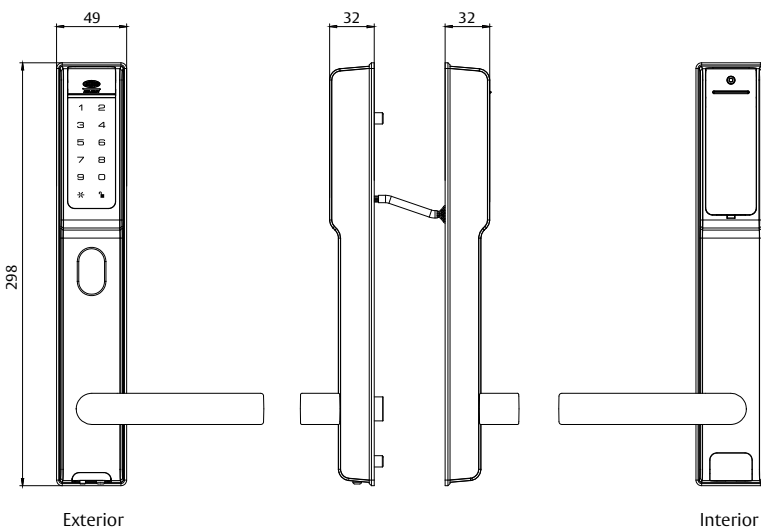You may also use the 530 version on a Mortice lockset and not use the override cylinder feature.

AU100-530

Exterior

Interior

AU100-3772

Exterior

Interior

AU100-5782

Exterior

Interior

AU100 Series Escutcheon

Electronic Features

- Wireless online access control
- Authorisation changes in real time
- Audit trails and time zones managed through existing EAC system
- Additional Key Override
- Rex (internal lever monitoring)
- Door position switch
- Now includes Privacy Mode
- Smart off line credential cache for the last 1000 authorised users for up to 30 days
- Store last 200 events and audit trails locally in the lock
- Battery powered – up to 40,000 operations
- LED status indication
- Battery low warning sent to EAC system
- Powerful new electronics with USB interface
- Remote door opening/locking functions
- RFID technologies, including iCLASS®, MIFARE® Classic/Plus, DESFire™, Seos® and LEGIC® and mobile technologies (NFC and BLE)
- Mobile Access functionality for Smart Phone credentials
- Aperio Offline devices support the OSS Standard Offline. For maximum compatibility with new and existing systems, Aperio Offline devices accept MIFARE® Classic, DESFire™ and Legic credentials — with audit trail support

Mechanical Features

- Emergency egress
- Compatible with Lockwood 3772 and 5782 Series Mechanical Mortice Locks
- Additional key override
- Fire rated
- Multiple lockset formats
- Emergency egress

Applications

- Internal doors and semi protected outdoor
- Retrofit mechanical Mortice Locks
- Expand existing access control installations
- New access control installations
- Doors that can't be hard wired
- Heritage listed buildings

Functions

External - lever is always locked. To unlock badge card and activate lever

Door automatically re-locks after set time. Can also be opened via key override

Keypad – Touch keypad to wake up unit, enter pin and activate lever

Internal - lever is set to escape free egress at all times

REX - Allows the access control to recognise valid egress when the internal lever is pressed followed by DPS

DPS – Allows the access control system to detect DOTL and forced door

AU100 Series Escutcheon

aperio®

Electronic Technical Information

Battery Type	4 x AA Alkaline
Battery Lifetime	>40,000 cycles
Radio Standard	IEEE802.15.4 (2.5GHz)
Encryption	AES128Bit
Wireless Range	5-25m depending on location of Hub & Environment
RFID Technologies (Based on reader type)	High Frequency Multiclass : iCLASS®/ISO 14443B; iCLASS® Seos; MIFARE™ Classic; MIFARE™ Plus; MIFARE™ DESFire™ EV1
RFID Reading	UID/sector/block
Card Range	>2cm
Operating Temperature	-20°C - 60°C
Humidity	<85% non condensing
Approvals	RCM CE
Finish	Brushed Satin Chrome
Door Thickness	35-50mm

Standards and Compliance

🔥	Successfully tested up to 2 hours on fire door assemblies in accordance with Australian Standard AS1905.1 2005 - Part 1: Fire Resistant Doorsets
SL8	(Security) Australian Lock Standard (AS4145.2:1993)
DL8	(Durability) Australian Lock Standard (AS4145.2:1993)
⬡	Australian Electrical Regulatory Compliance
CE	European Electric Compliance

Product Details

	AU100-530	AU100-3772	AU100-5782
Finish	SC	SC	SC
Backset	60mm	60mm	30mm
Lever	77A	77A	778A
Door Thickness	35-50mm	35-50mm	35-50mm
Body Material	Zinc Alloy	Zinc Alloy	Zinc Alloy
Override Cylinder	No	Yes	Yes
Lock Type	Tubular Latch 530	Suited for 3570 and 3770	Suited for 5580 and 5780
Door Application	Retrofit Latch	Timer door 60mm Backset	Metal or Aluminium narrow Style doors 30mm Backset

AU100 Escutcheons only

Product Description	Part Number
Aperio AU100 V3 Keypad & Reader, Mobile Access, 530 Ver, 35-50mm Door, with 530 Latch, Satin Chrome	**AU103BMU2SC1/1**
Aperio AU100 V3 Keypad & Reader, Mobile Access, 530 Ver, 35-50mm Door, with 530 Latch, Matt Black	**AU103BMU2MBK1/1**
Aperio AU100 V3 Keypad & Reader, Mobile Access, 3772 Ver, 35-50mm Door, No Lock, Satin Chrome	**AU103BMU2SC1/2**
Aperio AU100 V3 Keypad & Reader, Mobile Access, 3772 Ver, 35-50mm Door, No Lock, Matt Black	**AU103BMU2MBK1/2**
Aperio AU100 V3 Keypad & Reader, Mobile Access, 3772 Ver, 35-50mm Door, with 3772 Mortice, Satin Chrome	**AU103BMU2SC1/2/B**
Aperio AU100 V3 Keypad & Reader, Mobile Access, 3772 Ver, 35-50mm Door, with 3772 Mortice, Matt Black	**AU103BMU2MBK1/2/B**
Aperio AU100 V3 Keypad & Reader, Mobile Access, 5782 Ver, 35-50mm Door, No Lock, Satin Chrome	**AU103BMU2SC1/3**
Aperio AU100 V3 Keypad & Reader, Mobile Access, 5782 Ver, 35-50mm Door, No Lock, Matt Black	**AU103BMU2MBK1/3**
Aperio AU100 V3 Keypad & Reader, Mobile Access, 5782 Ver, 35-50mm Door, with 5782 Mortice, Satin Chrome	**AU103BMU2SC1/3/B**
Aperio AU100 V3 Keypad & Reader, Mobile Access, 5782 Ver, 35-50mm Door, with 5782 Mortice, Matt Black	**AU103BMU2MBK1/3/B**

AU100 Accessories

Product Description	Part Number
Aperio Gen 5 Wireless Communications Hub 1:16 RS485	**AH30-3-0**
Aperio Gen 5 Wireless Communications Hub 1:64 TCP/IP	**AH40-4-0**
Aperio Hub Antenna Extension Cable – 152mm	**AH30-AEC-0**

E100 Series Escutcheon

The E100 series escutcheon is designed to fit Lockwood mechanical 3772 series mortice locks and provide a cost effective migration to an online electronic access control door. In addition to card access the external side of the door provides for key override entry, whilst the inside lever is designed for emergency egress.

The external plate incorporates a sophisticated battery powered proximity reader that communicates wirelessly to a hub. The Hub is then wired directly to the access control system and enables standard online access control functionality at significantly reduced costs to that of a hard wired door.

Key Features

- Wireless online access control
- Authorisation changes in real time
- Audit trails and time zones managed through existing system
- Compatible with Lockwood 3772 series mechanical mortice locks
- Additional key override
- Emergency egress
- Lock can store up to 10 override credentials/ prox cards
- Store last 200 events and audit trails locally in the lock
- Battery powered – up to 40,000 operations
- LED status
- Battery low warning sent to EAC system

Applications

- Internal doors only
- Retro fit mechanical mortice locks
- Expand existing access control installations
- New access control installations
- Doors that cant be hard wired
- Heritage listed buildings

Function

- **External** lever is always locked.
  To unlock badge card and activate lever.
  Door automatically re-locks after set time.
  Can also be opened via key override.

- **Internal** lever is set to escape free egress at all times.

E100 Series Escutcheon
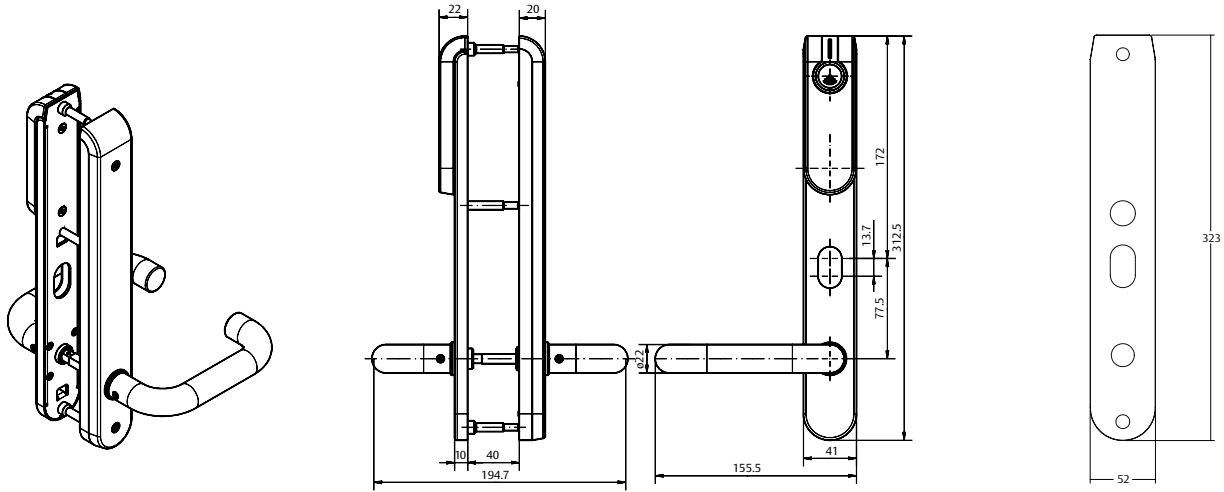
E100 cover plate

E100 Technical Information

Battery Type	1 x Lithium CR123A
Battery Life Time	>40,000 cycles
Radio Standard	IEEE 802.15.4 (2.4GHz)
Encryption	AES128 Bit
Wireless Range	5-25m depending on location of hub & environment
RFID Technology**	High Frequency Multiclass : iCLASS®/ ISO 14443B; iCLASS® Seos; MIFARE™ Classic; MIFARE™ Plus; MIFARE™ DESFire™ EV1
RFID Reading	UID / sector / block
Card Read Range	< 4cm
Operating Temperature	0ºC – 60ºC
Humidity	< 85% non condensating
IP-Degree	IP 52*
Approvals	CE and RCM
Colour	Brushed stainless steel
Override Cylinder	Lockwood Australian oval 570 series
Door Thickness	35mm to 85mm requires spindle to suit
Spindles	7.6mm
Backset	60mm

** Model dependant

Ordering Information

Product Description	Part Number
Aperio E100 V3 Escutcheon 35-45mm Door, MultiClass, Mobile Access	**E103MUB1SS1**
Aperio E100 V3 Escutcheon 35-45mm Door, MultiClass, Mobile Access + 3772 Mortice Lock	**E103MUB1SS1/3772**
Aperio E100 V3 Escutcheon 46-55mm Door, MultiClass, Mobile Access	**E103MUB1SS2**
Aperio E100 V3 Escutcheon 46-55mm Door, MultiClass, Mobile Access + 3772 Mortice Lock	**E103MUB1SS2/3772**
Aperio E100 V3 Escutcheon 56-65mm Door, MultiClass, Mobile Access	**E103MUB1SS3**
Aperio E100 V3 Escutcheon 56-65mm Door, MultiClass, Mobile Access + 3772 Mortice Lock	**E103MUB1SS3/3772**

Accessories

Product Description	Part Number
Aperio E100 Face Plate, No Key Override	**E103NOKO**
Aperio E100 Cover Plate, One Pair (each plate is 1.2mm thick, allow in the Spindle Length)	**E100-PL2SSS**
Aperio Gen 5 Wireless Communications Hub, 1:16, RS485	**AH30-3-0**
Aperio Gen 5 Wireless Communications Hub, 1:64, TCP/IP	**AH40-4-0**

Spare Parts

Product Description	Part Number
Aperio Spindle Kit 35-45mm	**E-SP35/45**
Aperio Spindle Kit 45-55mm	**E-SP45/55**

Notes:

- E100 cover plate is used only if required when retro fitting existing door furniture.
- Each cover plate is 1.2mm thick. A total of 2.4mm should be added to door thickness if using these plates
- To change the spindle; special tools may be required

ES100 Series Wireless Integrated Electric Strike

The The ES100 Series Wireless Electric Strikes make online access control simple and affordable.

For the first time, the industry leading features of the 1500 and 1600 series electric strikes have been paired with Aperio® wireless technology to provide even more affordable access control retrofit options for remote control and monitoring. Available in both Convenient (non-monitored) and Secure (monitored) model options. Compatible with most models of cylindrical and mortise latchbolt locksets, including 1" deadbolts. Simply put, the ES100 Series Electric Strike is the affordable, universal retrofit solution that offers flexible configuration options and dynamic adjustability without the need to run wires.

Key Features

Standard Features (All Models)

- 2.4 GHz Aperio wireless technology
- Integrates with existing access control systems and credentials
- Audit trail limited by access control system
- Battery operated for stand-alone operation
- SecuriCare three-year, no-fault, no questions asked warranty

Electric Strike Features

- Non-handed
- Fail secure operation (standard)
- Static strength 680 (KG)
- Dynamic strength 1 (KG)
- Interchangeable faceplates and accessories
- Factory configured monitored (M) and non-monitored options
  » M Security – Monitored (Latch and Door Position Monitor)
  » MH Security – Monitored Kit with AH20 1:1 Wiegand Hub
- Integrated locked state and tamper monitoring

- Field adjustable integrated shim for changing door conditions
- Fully finished faceplate, keeper, case, trim, and strike body
- Stainless steel construction
- Tamper resistant
- Strike body depths
  1500: 1-3/8" [35mm]
  1600: 1-5/8" [41mm]

Card Reader Features

- Supports HID multiCLASS SE® card technologies
- Supports NFC & BLE mobile access credentials
- BiColor LED visual status indicators; Red/Amber or Green/Amberasked warranty

Note: The 1600 strike is not available in Australia & New Zealand

Specifications

Certifications

- UL 294 listed
- FCC Part 15 & Industry Canada Compliant
- CE Red – Radio Equipment Directive – 2014/53/EU
- UL 1034 burglary-resistant
- UL 10C fire rated, 3-hour single door (fail secure only)
- UL 10C fire rated, 1-1/2 hour double door (fail secure only)
- CAN/ULC-S2014 fire door conformant
- NFPA-252 fire door conformant
- ASTM-E152 fire door compliant
- California Fire Marshall listed
- ANSI/SDI A250.13 windstorm resistant
- Florida Building Code approved TAS 201, 202, 203
- ANSI-ASTM E330
- RoHS compliant

$C \epsilon$ **R-NZ**

Frame Application

- Metal
- Wood

Electrical

- Estimated Battery Life: 45,000 Cycles*
- (2) "AA" lithium batteries (included)
  » AA LR6 (1.5 V) Lithium Ion Batteries required. Use of other types of batteries, such as alkaline, will significantly decrease battery life.
- microUSB port for emergency power

Environmental

Electric Strike

- Operating Temperature -25° to 60° C
- Operating Humidity 0 to 90% relative humidity non-condensing

Card Reader

- Operating Temperature -10° to 60° COperating Humidity 0 to 90% relative humidity non-condensing
- Tested to IP65

Card Technology HID® multiCLASS SE®

Electric Strike

- Operating Temperature -25° to 60° C
- Operating Humidity 0 to 90% relative humidity non-condensing

Card Reader

- Operating Temperature -10° to 60° C
- Operating Humidity 0 to 90% relative humidity non-condensing
- Tested to IP65

Card Technology HID® multiCLASS SE®

- High Frequency (13.56 MHz)
  » HID iCLASS®
  » HID iCLASS SE® (SIO®-enabled)
  » HID iCLASS® Seos®
  » HID MIFARE® SE
  » HID DESFire® EV1 SE
  » MIFARE CLASSIC
  » DESFire® EV1
  » DESFire® EV2 (legacy mode)

- Low Frequency (125 kHz)
  » HID Prox®
  » AWID
  » EM4102
  » IOProx

- Mobile Access Credentials
  » NFC
  » HID BLE Mobile Access
  » SEOS iOS Apple Wallet

Accessories

Product Description	Part Number
Aperio Wireless Electric Strike & Reader, Suits Latch Bolts, Monitoring, BLE, SS	ES100-15LM-BIPS-630
Torx screws	157
Metal template kit	HESCUT-MTK
Spring replacement kit	OPT-1SRK
Single lock monitor	OPT-1LM
Aperio® Hub External Antenna (Omni-directional)	500ZB-EXTANT-00
Aperio Radio Dongle*	APRD1/PAP1
Lip extension trim adapter	APD10USB

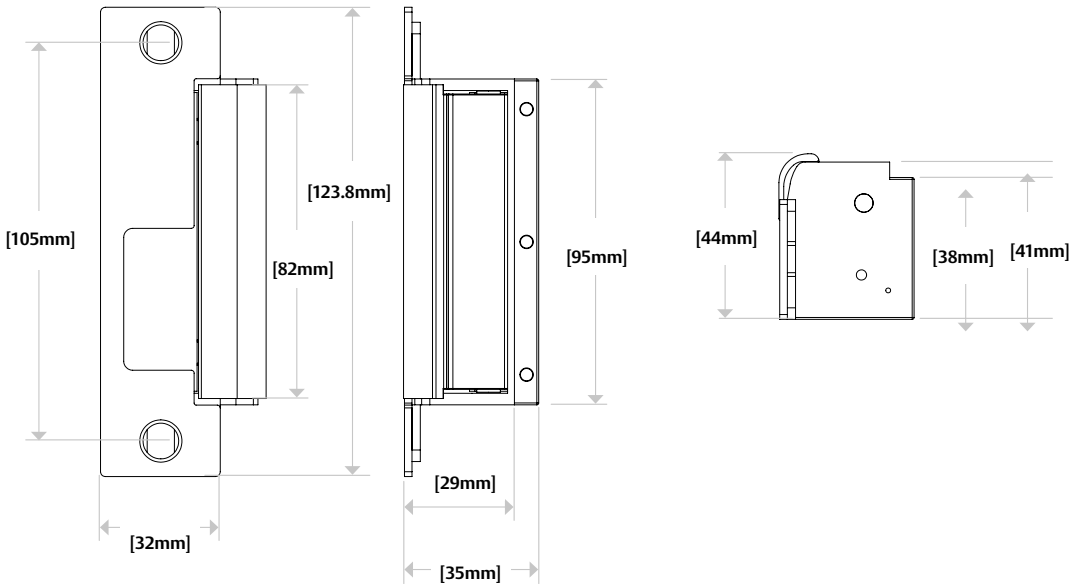### For use with 1500 models (XXX – finished to match)

Product Description	Part Number
Lip extension trim adapter	1500-104-XXX
4500 adapter and trim enhancer kit	1500-106-XXX

For use with 1600 models* (XXX – finished to match)
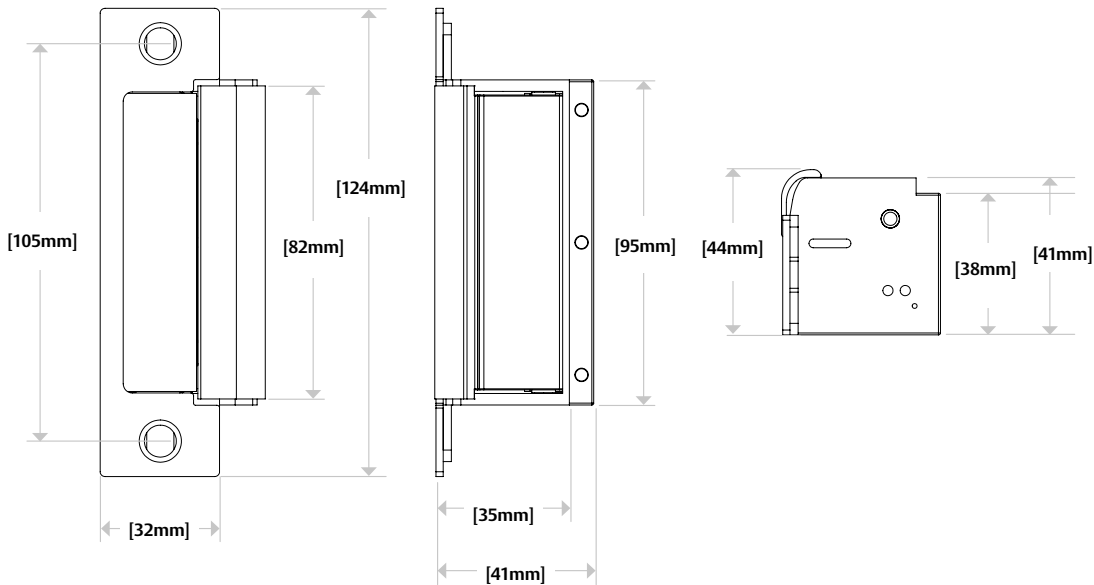
Product Description	Part Number
Lip extension trim adapter	1600-104-XXX
1006 adapter and trim enhancer kit	1600-106-XXX

*Note: The 1600 strike is not available in Australia & New Zealand

E100 Series Escutcheon

aperio®

ES100-15 Dimensions

[105mm]
[123.8mm]
[82mm]
[95mm]
[44mm]
[38mm]
[41mm]
[29mm]
[32mm]
[35mm]

ES100-16* Dimensions

[105mm]
[124mm]
[82mm]
[95mm]
[44mm]
[38mm]
[41mm]
[32mm]
[35mm]
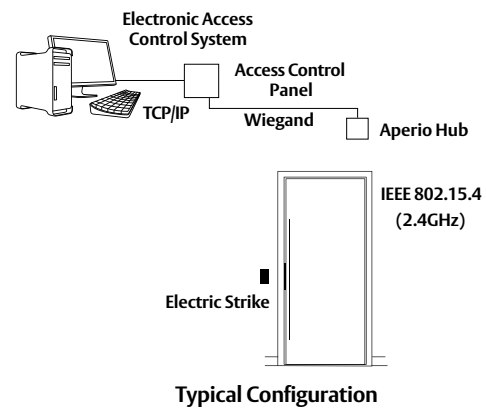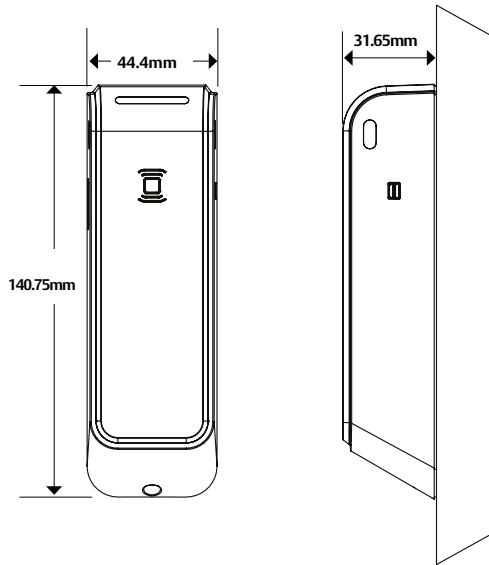[41mm]

*Note: The 1600 strike is not available in Australia & New Zealand

ES100 Reader Dimensions

- Reader Harness Length 228.6 mm
- Strike Harness Length 177.8 mm
- Strike DPS/Latch Monitor Harness Length 254mm

Local wireless communication eliminates the cost and inconvenience of wiring in and around the door, without the hassle of complex site surveys.

Ordering Procedure

Sample part number ES100-15LM-IPS-630 is made up of several sections. Choose your product by selecting an option from each section.

SERIES	MODEL	FACE PLATES	OPTIONS	CARD TECHNOLOGY	STRIKE FINISH
ES100	-15	L	M	-IPS	-630

SERIES

MODEL

Reader Body and 1500 Strike for ANSI Latchbolt Locks	15
Reader Body and 1600 Strike for ANSI Latchbolt Locks	16

FACEPLATES

Strike Body Only	blank
Complete Pac for Latchbolts	L
Complete Pac for Deadbolts	D*
Complete Pac for Latchbolts and Deadbolts	S*

OPTIONS

Convenience — Non-Monitored; Field configured to work with AH20, AH30, or AH40 wireless hubs	(blank)**
Security — Monitored	M**
Without Monitoring; Factory Paired with AH20 1:1 Wiegand Hub	H***
WithMonitoring; Factory Paired with AH20 1:1 Wiegand Hub	MH***

CARD TECHNOLOGY

HID iCLASS®, HID iCLASS SE® (SIO-enabled), HID iCLASS® Seos™, HID MIFARE® SE, HID DESFire® EV1 SE, MIFARE Classic, MIFARE DESFire EV1, NFC-enabled Mobile Phones: HID Mobile Access (NFC), Seos Apple Wallet (NFC)	IPS
Same as IPS but with factory loaded HID Elite Credential	IPEXXXX †
HID iCLASS®, HID iCLASS SE® (SIO-enabled), HID iCLASS® Seos™, HID MIFARE® SE, HID DESFire® EV1 SE, MIFARE Classic, MIFARE DESFire EV1, NFC & BLE-enabled Mobile Phones: HID Mobile Access (BLE and NFC), Seos Apple Wallet (NFC)	BIPSXXXXX** †
Same as BIPS but with factory loaded HID Elite Credential	BIPEXXXX** †

Sub Function

Bright Brass	605
Satin Brass	606
Satin Bronze	612
Dark Oxidized Bronze Powder	613E
Bright Stainless Steel	629
Satin Stainless Steel	630
Black Suede Powder	BSP

*Available with 1600 Only. The 1600 strike is not available in Australia & New Zealand
**XXXXX is a unique or customer specific key that is only reorderable for that specific company.

*** Only available with L or S Complete Pac Options in 630 finish.
† HID Authorization form will need to be filled out and signed by the end user who has authority of the ELITE KEY.

KL100 Cabinet Lock

The ASSA ABLOY Aperio KL100 Cabinet Lock, a new wireless access solution for lockers, cabinets and drawers, bringing improved security to valuables.

Access control should not stop at doors. In shared spaces, valuables and other personal items deserve the same protection as offices, treatment rooms or server racks. Many access solutions are limited to the door environment. This is where the new Aperio KL100 comes in as it integrates seamlessly with more than 100 access control systems, bringing security to many access points beyond just doors.

Managing the security of additional access points outside a security system increases risk, complexity and workload. The battery-powered Aperio KL100 solves this problem. It secures lockers, cabinets, cupboards and drawers. Almost any small opening quickly becomes an integral part of an access control system.

An Aperio KL100 fitted at these points gives personal valuables, medicines, sensitive documents, retail stock, sports kit and more, the security they deserve. It deters unauthorised access and theft.

With two different lengths, diameters and several CAM options, the KL100 is a straightforward retrofit solution. It suits almost any locker, cabinet or drawer, whether timber or metal. Powered by one battery, this wireless lock consumes very little power, it only "wakes up" when a credential is presented and needs no specialist maintenance.

In line with every device in the Aperio range of battery-powered locks, this product does not require the hassle or inflexibility of physical keys.

An Aperio KL100 can be operated with mobile keys via Bluetooth Low Energy and NFC, as well as smartcards and fobs using all major RFID technologies. For added user convenience, the device accepts multiple credential technologies simultaneously, in parallel, so security managers can roll out mobile keys at their own pace.

Easy hardware integration for greater efficiency and convenience

The Aperio KL100 is designed for minimal disruption to furniture. A tiny footprint and wire-free operation ensure it's fitted quickly without causing damage or visual impact.

Yet within this small package is a powerful device which integrates seamlessly with any new or existing access control and security system — from over 100 different manufacturers and counting. Existing user credentials do not need to be replaced.

A KL100 may be connected Online, Offline or via OSS compliant integration — and switched between them at any time. Online management enables real-time control over every KL100 lock, with easy access rights administration and instant availability of audit trails for any opening or user — which makes incident investigation fast and accurate.

The Aperio KL100 Locker and Cabinet Lock joins a family of trusted wireless, battery-powered devices which includes cylinders, escutcheons, handles, security locks, server rack locks and more. With its contemporary, low-profile design and power provided by a single, standard lithium battery, the KL100 is the modern choice for securing any site's valuables and sensitive small spaces.

KL100 Cabinet Lock

Key Features

- Cable Free

- Inbuilt LED instantly communicates if access is granted or denied

- Flexible, Four versions available to fit metal and timber doors, with two hole diameters – 19 & 22mm and two lengths

- Several CAM versions available for multiple applications

- May be fitted to left or right-handed cabinet opening and vertically to secure drawers

- Lock surface is designed to allow manual pull for opening lockers without a handle

- Battery powered with a typical battery life of several years

- Can be operated with Smart cards, Bracelets, Fobs and Smartphones (NFC & Bluetooth)

Applications

- Hospital Medicine Cabinets and Drawers
- Document Cabinets
- Retail Displays
- Personal Belongings
- Staff Lockers
- Almost any locker, cabinet or drawer, whether metal or timber.

Specifications

Battery Type	1 x Lithium CR123A
Battery Lifetime	25 openings per day for 106 months
Emergency Power	Via micro-USB socket
Environment:	0 to 55 Degrees Celsius
Status Indication	Red/Green/Yellow LED
Operating Modes	Aperio Online, Aperio Offline, Standard OSS Offline
Radio Standard	IEEE 802.15.4 (2.4GHz)
Encryption	AES 128 bits
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
Approvals	CE, UKCA, RCM, R-NZ
RFID Read range:	Up to 4cm
Dimensions	Front: 57W x 63Hmm x 31D

Standards and Compliance

UKCA CE RCM R-NZ

KL100 Cabinet Lock

Dimensions in mm
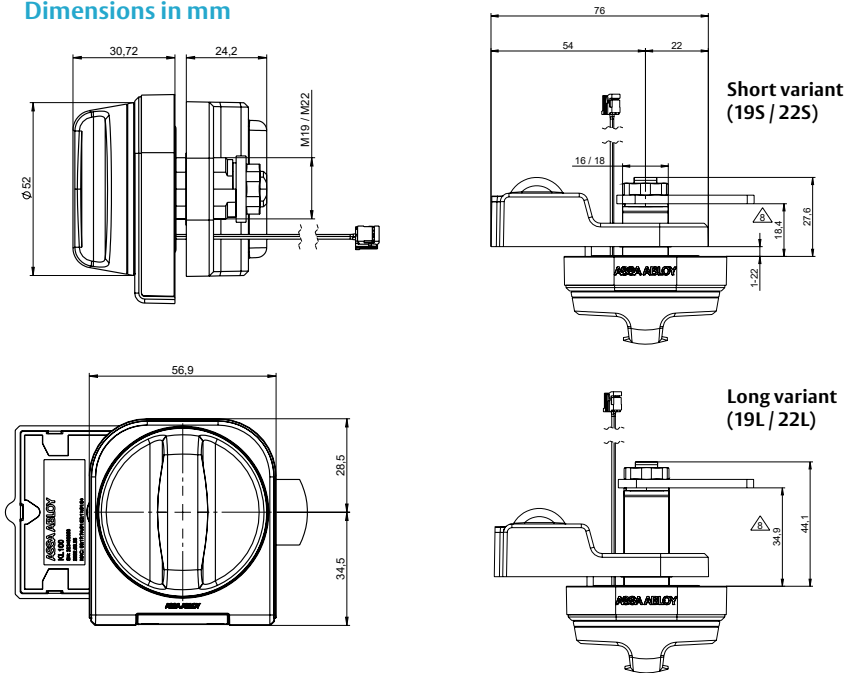
Drilling dimensions
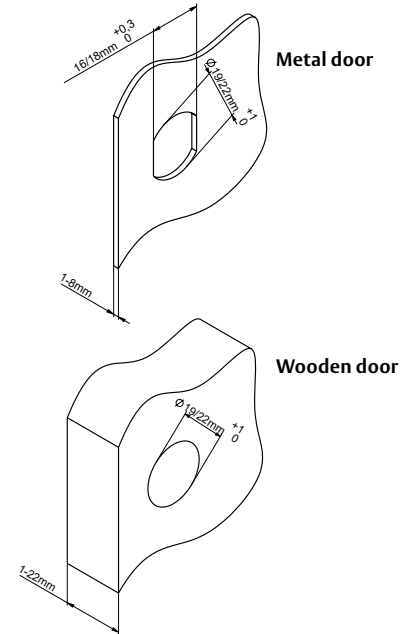
Short variant
(19S / 22S)

Long variant
(19L / 22L)

Metal door

Wooden door

Ordering Information

Product Description	Part Number
ASSA ABLOY Aperio KL100 Cabinet Lock, Long, 19mm Diameter	**KL100-19L**
ASSA ABLOY Aperio KL100 Cabinet Lock, Short, 19mm Diameter	**KL100-19S**
ASSA ABLOY Aperio KL100 Cabinet Lock, Long, 22mm Diameter	**KL100-22L**
ASSA ABLOY Aperio KL100 Cabinet Lock, Short, 22mm Diameter	**KL100-22S**

Accessories

Product Description	Part Number
ASSA ABLOY Aperio KL100 Backing Plate, 19mm (10 pieces)	**AKL100-10**
ASSA ABLOY Aperio KL100 Backing Plate, 22mm (10 pieces)	**AKL100-11**
ASSA ABLOY Aperio KL100 CAM, Straight, 05 A38 D0 (10 pieces)	**AKL100-20**
ASSA ABLOY Aperio KL100 CAM, Straight, 17 A30 5 D0 (10 pieces)	**AKL100-21**
ASSA ABLOY Aperio KL100 CAM, Offset, 86 A49 B5 D0 (10 pieces)	**AKL100-22**
ASSA ABLOY Aperio KL100 CAM, Offset, 76 A41 B8 5 D0 (10 pieces)	**AKL100-23**
ASSA ABLOY Aperio KL100 CAM, Offset, 109 A38 B3 D0 (10 pieces)	**AKL100-24**
ASSA ABLOY Aperio KL100 CAM, Straight, 71 A50 D0 (10 pieces)	**AKL100-25**
ASSA ABLOY Aperio KL100 Plastic Rose Assembly	**AKL100-30**
ASSA ABLOY Aperio KL100 Battery Holder Assembly	**AKL100-31**
ASSA ABLOY Aperio KL100 Back Cover	**AKL100-32**
ASSA ABLOY Aperio KL100 USB Cover Assembly	**AKL100-33**
ASSA ABLOY Aperio KL100 Turn Stop Washer	**AKL100-40**
ASSA ABLOY Aperio KL100 Screw 2.5 x 8mm	**AKL100-41**
ASSA ABLOY Aperio KL100 Insert	**AKL100-42**
ASSA ABLOY Aperio KL100 Nut M11 x 1	**AKL100-43**
ASSA ABLOY Aperio KL100 Nut M22 x 1	**AKL100-44**
ASSA ABLOY Aperio KL100 Nut M19 x 1	**AKL100-45**

Securitron® R100 Series Card Reader

aperio®

The Securitron R100 surface mounted wireless card reader offers a cost effective, aesthetically pleasing way to extend access control to glass, metal or stone surfaces without the need for cutting or drilling.

A retrofit solution capable of being installed in minutes that compliments virtually any ASSA ABLOY electrified locking device. Provides flexible, robust retrofit options for entryways unlike any the industry has seen before.

NOTE: The Securitron R100 card reader is available as either a pre-paired reader and hub kit (no certification required) or as a field configurable component (requires Aperio® Certified Integrator certification). Pre-paired kits support limited features, field configured devices are required in order to support all options. Visit **IntelligentOpenings.com** to learn more.

Key Features

- For use on glass or metal surfaces

- 2.4 GHz Aperio wireless technology

- Supports HID multiCLASS SE® card technologies

- Integrates with existing access control systems and ID badges

- Audit trail limited by EAC system

- LEDs indicate valid/invalid entries; Red/Amber or Green/Amber

- SecuriCare three-year, no-fault, no questions asked warranty

K100 Technical Information

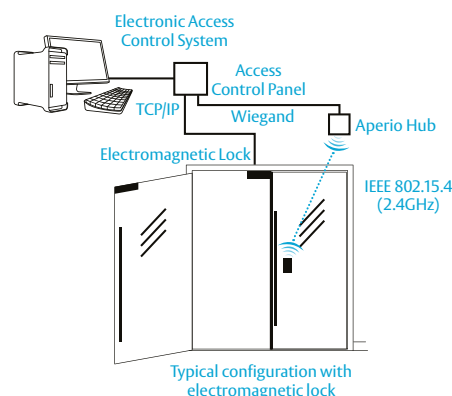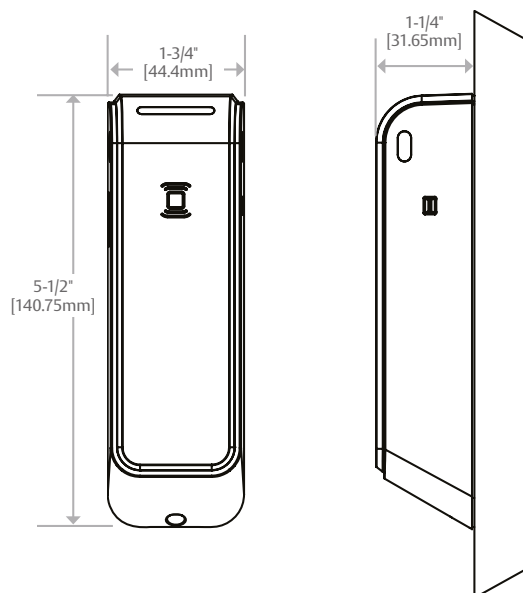|	
Operating Temperature	32° to 122° F (0° to 50° C)
Approvals	FCC Part 15 & Industry Canada Compliant, CE RED – Radio Equipment Directive – 2014/53/EU, RoHS Compliant and Tested to meet IP65
Finishes	Black

Securitron® R100 Series Card Reader

Specifications

Electrical

- Estimated Battery Life: 50,000 Cycles
- (2) "AA" lithium batteries (included)
  - AA Lithium Batteries required. Use of other types of batteries, such as alkaline, will significantly decrease battery life.
  - Battery voltage monitoring
- microUSB port for emergency power

Card Technology HID® multiCLASS SE®

- **High Frequency (13.56 MHz)**
  - HID iCLASS®
  - HID iCLASS SE (SIO-enabled)
  - HID iCLASS® Seos™
  - HID MIFARE® SE
  - HID DESFire® EV1 SE
  - MIFARE CLASSIC
  - DESFire® EV1

- **Low Frequency (125 kHz)**
  - HID Prox®
  - AWID
  - EM4102
  - ioProx
- NFC-enabled Mobile Phones
- NFC & Mobile Access - enabled Mobile Phones

1-3/4" [44.4mm]

1-1/4" [31.65mm]

5-1/2" [140.75mm]

Electronic Access Control System

Access Control Panel

TCP/IP

Wiegand

Aperio Hub

Electromagnetic Lock

IEEE 802.15.4 (2.4GHz)

Typical configuration with electromagnetic lock

Local wireless communication eliminates the cost and inconvenience of wiring in and around the door, without the hassle of complex site surveys.

Ordering Information

Product Description	Part Number
Aperio Reader with Paired Hub (Black)	**R100H-IPS-B**
R100 Glass Mount Reader Blk no Hub	**R100-IPS-B**

Accessories

Product Description	Part Number
R100 adhesive Aluminum dress cover plate	**R100-DCA**

Communication Hub and EAC Interface

The communication Hub is the link between Aperio Locks and the access control system. Depending on the type of Hub used, up to 8 locks can be paired with one Hub.

The hub communicates directly with the locks over an encrypted 2.4ghz wireless.

There are four communication hub types, Depending on the access control system you are connecting the hubs to will depend on the type of hub selected.

AH20

The AH20 utilises a standard Wiegand interface between the Hub and the existing access control system and in addition provides 4 relays to provide a low level interface to report, low battery, Lock Jamb, Unlocked and Lock Offline. The hub is designed to communicate with a lock within a 25m range.
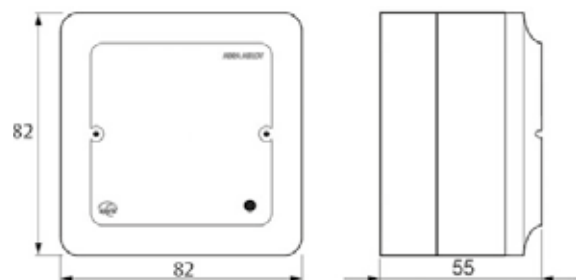
AH30

The AH30 utilises a RS-485 connection between the Hub and the access control system. The hub is designed to communicate with up to 16 locks within a 25m range.

AH40

The AH40 utilises an IP (Ethernet) connection between the Hub and the access control system. The Hub is designed to communicate with up to 64 locks within a 25m range. The AH40 can be powered via both an external power supply and POE 3.5w

Key Features

- Connect up to 8 Aperio Devices to a single hub

- Different interfaces allowing connection to a wide range of access control systems

- 128 Bit AES Encrypted Radio Communications

- Integrated antenna

- Led Status for visual indication

- Applications – Same as

AH30 1:16 RS485 Hub

AH40 1:64 IP (ethernet) Hub

Communication Hub Technical

Hub Version	Interface	Max. No. of Locks
AH20	Advanced Weigand	1
AH30	RS-485	16
AH40	IP (Ethernet)	64

Ordering Information

Product Description	Part Number
AH20 Aperio 1:1 Advance Wiegand Hub	AH20-2-0
AH30 Aperio 1:16 RS485 Hub	AH30-3-0
AH40 Aperio 1:64 IP(Ethernet) Hub	AH40-4-0
Aperio® Hub External Antenna (Omni-directional)	500ZB-EXTANT-00

Software & USB Radio Dongle

The Aperio® Programming Application is the software tool used to set up and programme Aperio® based products.

Using the software the installer simply plugs in the USB radio dongle to the PC to communicate directly to the Aperio® lock via the Communication Hub.

The software has an encrypted installation data base that can be used to manage any number of sites.

Key Features

Software

- Multilingual installation tool
- Encrypted installation database
- Installation management:
    - Unit configuration
    - Firmware update
    - Pair/Un-pair
    - Override credentials
    - Wireless status link
    - RS485 settings

Radio Dongle

- Provides communication to Aperio® based products
- Encrypted radio communication

Applications

- Tools designed for the installer to set up and program Aperio® based products

Ordering Information

Product Description	Part Number
USB Dongle	APRD1/PAP1

Access Control

Integral Wireless Access Control

Integral RFID Proximity Identification Technology

Product Features

- Stand-alone Electronic Wireless Access Control lockset with RFID Proximity reader

- Powered by 4xAA batteries that provide up to 60,000 operations

- 992 event audit trail

- Stainless Steel Escutcheon

- Uses Australian Mortice lock (3772NOHDSS) . 530 tubular latch option also available

- Panic release function – the latch is automatically retracted by inside handle for easy egress in emergency situations

- 3 point steel latch construction with an antifriction mechanism

- High quality card reader that reads with optimal accuracy

- Door Opening Time - Open the door after pressing the handle, automatically locks within 5 seconds

- Electronic Privacy - Denies access when privacy is required

- Passage mode - Gives the ability to leave the door in the unlocked state

- Available with or without key override

- Fire Rated

Under Voltage Indication:

Early warning given for low batteries - units will continue to operate for approximately 50 times until such time the batteries can be changed.

Specifications

Anti-Static Interference	>15000V
Working Humidity	20%-98%
Working Temperature	-20°C - +70°
RFID Card Type	ISO 14443A MIFARE®
Frequency	13.56MHz
Induction Distance	Approx. 30mm
Power	4 x AA Alkaline Batteries

Access Cards

User Cards: Opens locks (when granted applicable access rights) within the "Access Control System" within a specific time period. The access rights for each user are programmed by the software and encoder User cards will not open doors that have the internal 'Privacy mode' set.

Floor Card: Unlocks all rooms of a specific floor in a valid period, except if the room is locked from within (Privacy).

Zone Card: Unlocks all rooms of a specific zone (building) in a valid period, except if the room is locked from within (Privacy).

Global Access Card: Unlocks all doors in a valid period, except if the room is locked from within (Privacy).

Security Card: Unlocks all doors in a valid period, including doors that have been locked from within (Privacy).

One time User Card: Unlocks selected door during a valid time period but expires after use.

* Cards supplied in Plain White with custom printing available.

Access Management Setting Cards

Locks Identification Card: Set the Address ID of door lock

Lock Real-Time Card: Set the door lock "real time"

Recorder Card: Reads the Audit Trail Information from the locking devices

Cancel Staff Card: Cancels lost staff cards (Floor, Zone, Global, Security)

Software Management Cards

SWA (Software Activation Card): Activates the card issuing system (Management Software) & Initialises the Locks.

ICCARD: Additional SWA Card if SWA card is lost or more than one is required on the same site.

Integral
Access Management Components

Encoder

- Programs all Cards Types except for the Special IC card, which is used to activate the software management system

- Plug-in-and-Play USB Card Encoder

- Easily learn and use: it easily assigns new users and cards, it modifies them or invalidates lost or stolen cards

- Reads the audit trail of locks when cards are presented
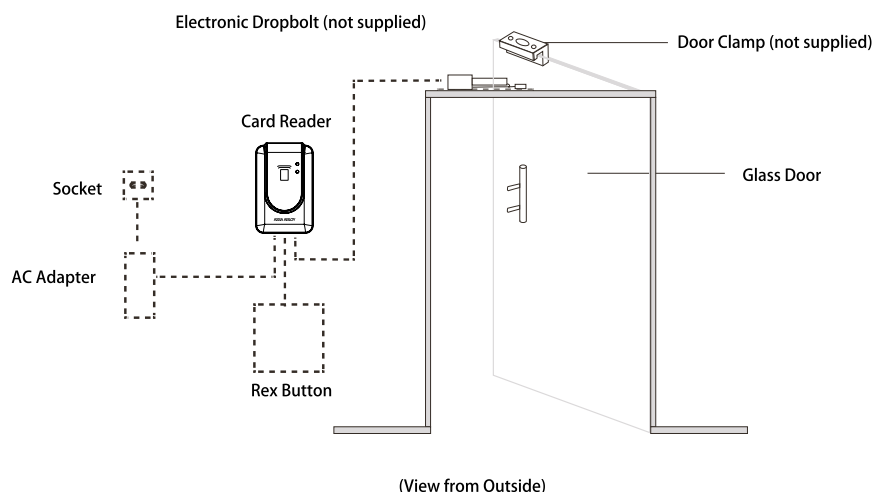
- Windows® based

Specifications

Colour	Black
Material	Flame Retardant ABS
Power Supply	By USB
Operating Current	100mA
RF Frequency	13.56MHz
Size	31mm x 98mm 125mm

Integral
Access Management Components

Door Access Controller Wall Reader

- For doors where Integral escutcheons are not fitted

- RFID Door Access Controller Wall Reader can be used on an entry door as part of the complete wireless access control system. It can also be used on any other common area doors in the building

- The RFID Door Access Controller Wall Reader can be used with a number of different electronic lock types. Compatible with electronic magnets, drop bolts, motorised locks and electric strikes

Electronic Dropbolt (not supplied)

Door Clamp (not supplied)

Card Reader

Socket

Glass Door

AC Adapter

Rex Button

(View from Outside)

Energy Saving Device

- For minimizing energy consumption in a room when unoccupied.

- The intelligent energy saver controls and manages the electrical installation of the room. It allows the electricity in the room to be switched on after inserting a valid card and during the time that the card is in the energy saver.

- It only works with Integral user cards and it incorporates RFID proximity ISO 14443A MIFARE® technology.

Specifications

Colour	Black
Power Supply	12VDC
Current Consumption	100mA
Card Type	Mifare Card (MACS) (Only operates with ASSA ABLOY Integral System Cards)
Read Card Distance	20 ~ 50mm
Audit Trail	2000 Events
Input	Rex button signal
Output	Dry node 1 group (NO/NC/COM)
Working Environment	Working Temperature: -10 ~ 70°C Storage Temparature: -25 ~ 125°C Working Humidity: 5% ~ 95%

Integral
Access Management Components

Portable Programmer

NFC Data Collection/Configuration:

- For configuring and collecting data from each lock
- Synchronise lock data with the Integral software
- Connects to PC using USB cable
- Extract entry data (audit trail) from the locks (total of 2000 events in memory)
- Can extract multiple locks without uploading
- Upload all records to the Integral software
- Easily set the time of the locks
- Checks card recorded information
- Check lock configuration

Specifications

Colour	Black
Communications	USB/NFC
Material	Flame retardant ABS
Working Voltage	3.0V (2pcs AA batteries)
Quiescent Current	<10uA
Working Current	<100mA
Size	177.6mm x 85mm x 30mm
Working Environment	Working temperature: 0~70°C Storage temperature: -25~125°C Working humidity: 5%~95%

Integral
Access Control Management System

Software

A simple to use software system that makes it easy to manage and maintain your access control

- Software available in commercial or accommodation versions

- Basic door management software system that is simple to add and delete doors/users as necessary

- Flexible user access rights

- Creates Software Management Cards for activating card issuing system and initializing the door locks

- Creates Access Management Setting Cards for setting the Wireless Access Control Lock ID and "real time" clock.

- Audits: Show and report on;

  – Lists of individual doors

  – Identification of users

  – Doors by floor, building, block, zone etc.

  – A report of every opening/closing registered by all locks/readers

  – All events relating to the operation of the software (Logins etc.)

- Different levels for operators (Administrators)

- Intuitive Windows® based software connected to a USB card encoder to program/issue cards
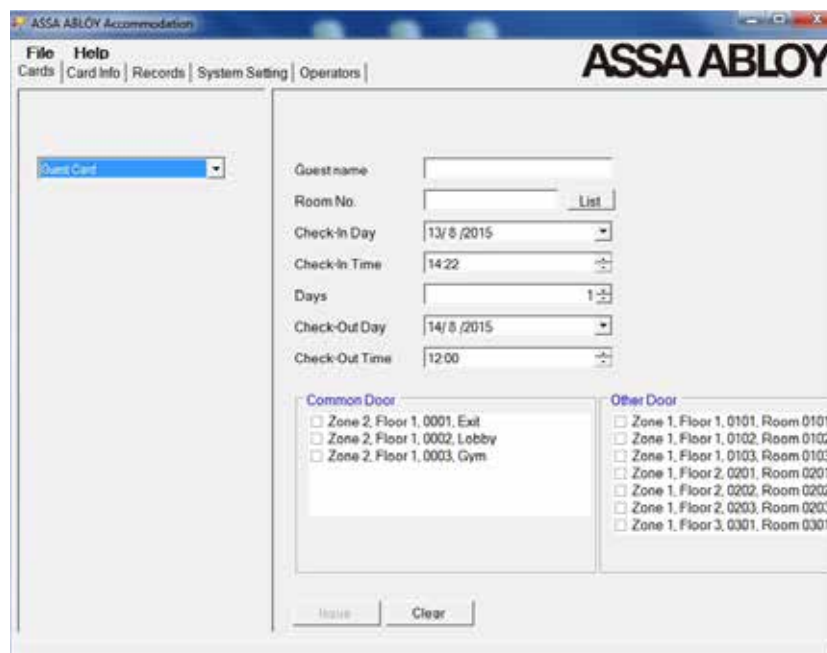
Computer Requirements

	ASSA ABLOY Server / Client	ASSA ABLOY Desktop Client
Supported Operating Systems:	Windows 11	Windows 11
	Windows 10	Windows 10
	Windows 7, Windows Server 2003,	Windows 7, Windows Server 2003,
	Windows Server 2008, Windows Server 2008 R2	Windows Server 2008, Windows Server 2008 R2
System Memory	Minimum 4 GB	Minimum 2 GB
Hard Disk	4 GB of Disk Space	1 GB of Disk Space

Processors:

ASSA ABLOY Desktop Client & ASSA ABLOY Server / Client:

X86:   Pentium III-compatible processor or faster (Processor Speed - 1.0 GHz or faster)

X64:   Minimum: AMD Opteron, AMD Athlon 64, Intel Xeon with Intel EM64T support, Intel Pentium IV with EM64T support (Processor Speed - 1.0 GHz or faster)

Integral Product
Reference Codes Functions

ASSA ABLOY's Integral Wireless Access
Control Solution Product.

Encoder

ITGL910-ENCODER	Card encoder

Locksets/Escutcheon

ITGL-AUT1I1SS	ASSA ABLOY Integral Escutcheon - AU Version (35mm - 55mm Door)
ITGL-AUT1I1KOSS	ASSA ABLOY Integral Escutcheon with Key Override (35mm - 55mm Door)
ITGL-AUT1l1SS-B	ASSA ABLOY Integral Escutcheon - AU Version (35mm - 55mm Door) with 3772 Mortice Lock
ITGL-AUT1I1KOSS-B	ASSA ABLOY Integral Escutcheon with Key Override (35mm - 55mm Door) with 3772 Mortice Lock
ITGL-AUT1I1SS-BL1	ASSA ABLOY Integral Escutcheon (35mm - 55mm DOOR) with 530 Latch 60mm
ITGL-AUT1I1SS-BL2	ASSA ABLOY Integral Escutcheon (35mm - 55mm DOOR) with 530 Latch 70mm
ITGL-AUT1I1SS-BL3	ASSA ABLOY Integral Escutcheon (35mm - 55mm DOOR) with 530 Latch 127mm

Cards

ITGL920-ICCard	Additional System Activation Card: Activates the card issuing system
ITGL910-SWA	System Activation Card: Activates the card issuing system
ITGL920-USERCARD	User Cards: Writable cards All writable cards can program the following cards - Setting card - Guard card - Single card - Time card - Zone card - Global card - User card - Floor card - Record card
ITGL920-USERFOB	User Fob - Writable
ITGL-920-WBB-30/75	User Wrist Band 30-75mm - Writable

Product Accessories

ITGL930-ENERGY	Intelligent energy saving device
ITGL930-WALL	Wall mounted RFID door access controller
ITGL930-LIFT	Lift controller 2 - 27 floors (Includes) & 8 Floors lift card reader
ITGL930-HDD	Hand Held NFC Programming Device
ITGL-SCAR-001	Integral Escutcheon Scar Plate (Pair)

System Capacity

SYSTEM COMPONENT	LIMITATION
Integral Server	1
Integral Client*	15
Door Locks / Readers	9999
Elevator Floors	27
Users / Cards	Unlimited

Note: Each Client must have an encoder.

ASSA ABLOY
Opening Solutions

Master Code

- Unlocks the cam lock (the cam lock will remain opened after use with the Master PIN Code)

- Enables changing the Master PIN Code

- Enables changing the User PIN Code (in Private Mode)

- Deletes the User PIN Code automatically

User Code

- Unlocks the cam lock (automatically lock in Private Mode when user close the locker and turn the knob to the lock position)

- Enables changing the User Code

Technician Code

- Unlocks the cam lock (automatically lock in both Mode when user close the locker and turn the knob to the lock position)

- Not able to change the User Code

Private Mode

- The cam lock starts in a locked state

- Open the cam lock by using a registered PIN code on the front keypad

- The cam lock will remain unlocked until user turn the knob back into locked position

Public Mode

- The cam lock starts in an unlocked state

- The user enters their own personal 4-12 digit PIN code, this will lock the cam lock

- Unlock the cam lock by using the same PIN code again. This leaves the cam lock in the unlocked state

- This PIN code is then erased and ready for the next new user

- This function is used for short term, multi occupancy applications e.g. Locker in a fitness club

Time Opening Function

- Ensures lock is unlocked after a predetermined amount of time has passed, ideal for public facilities

Increased Overload Protection

- Prevents the knob from becoming loose when a certain amount of force is applied

Handle Position Detection And Motor Switch Detection

- Disables the keypad when the cam lock is in unlocked status
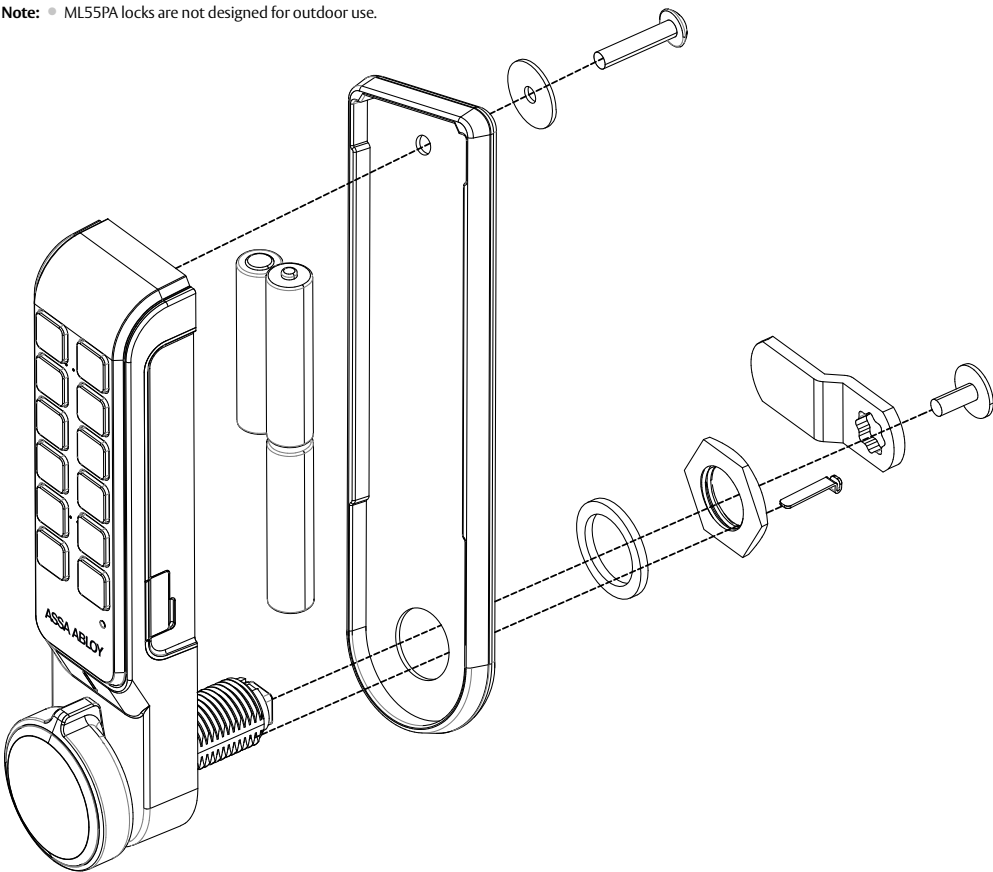
New Locking Mechanism

- Enhances the camlock functionality

ML55PA - Digital PIN Keypad Vertical Specifications

Product Details

Part Number	ML55B00107 - ML55PA Digital PIN Keypad Vertical
Size	158mm (High) x 40mm (Wide) x 23mm (Deep, Body), 31mm (Deep, Knob)
Material	Die-cast (Body & Knob), ABS (Front)
Operating	Temperature: -20°C ～ +70°C Humidity: 0-90%
Credential Levels	Master: 1 PIN code, 4-12 digit
	User: 1 PIN code, 4-12 digit
	Technician: 1 PIN code, 4-12 digit
Battery / Life	3 AAA Alkaline Batteries (not included)
	1.5 Years (Using 10 times a day)
Salt Spray	Tested to 96 hours
Compliance	
Door Thickness	1 - 23mm
Cams	2 x Standard 3mm thick stainless steel cams supplied one straight cam, one offset cam. See page 6 for dimensions

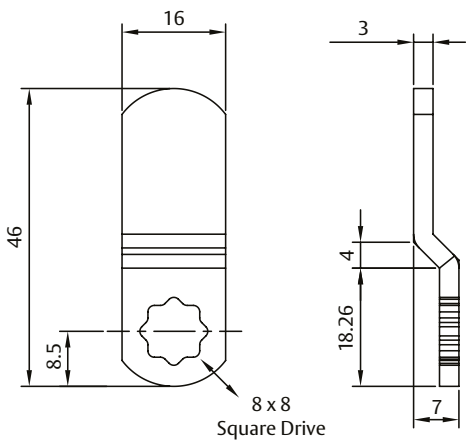**Note:** ● ML55PA locks are not designed for outdoor use.
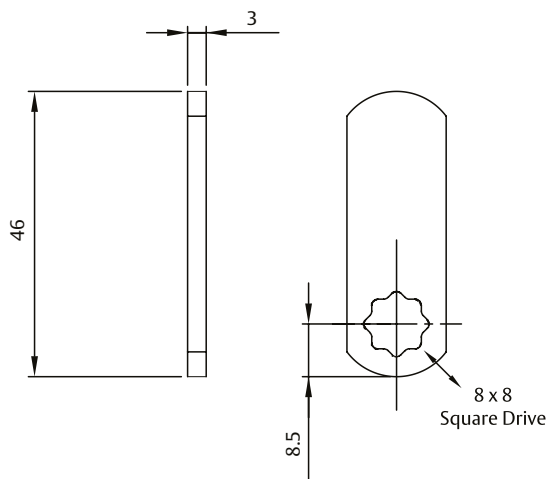
ML55PA - Digital PIN Keypad

ML55B00107- ML55PA Digital PIN

40.30

23.10

8.50

M4

157.65

129.00

M16

20.15

3.00

25.90

30.60

Offset Cam

16

3

46

8.5

4

18.26

7

8 x 8
Square Drive

Straight Cam

3

46

8.5

8 x 8
Square Drive
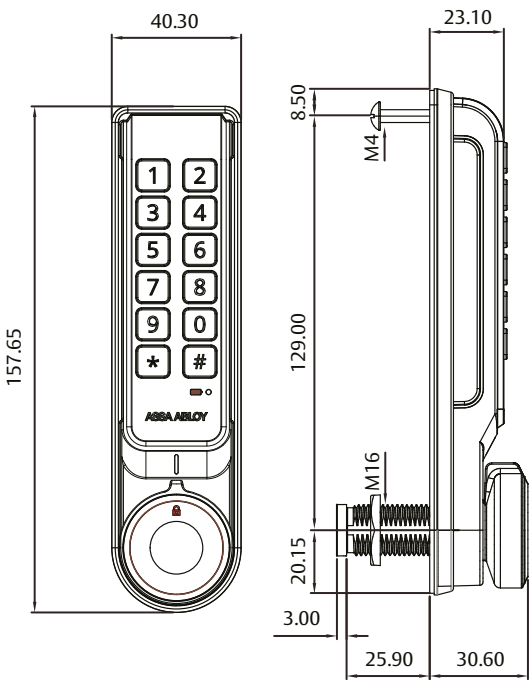
Note: Both the offset and straight cam are included with all cam locks.

All dimensions in millimeters.

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