

# IN100

## Aperio Wireless Access Control

Available through Authorized  
Channel Partners only.

Contact your local ASSA ABLOY  
Door Security Solutions sales  
consultant for details.



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### Overview

The SARGENT IN100 lockset brings you the next generation of wireless access control in a sleek, minimalist design. Leverage your EAC or IT infrastructure to deliver advanced access control to more locations, with the flexibility and security of HID® multiCLASS SE® technology.

### About ASSA ABLOY's Authorized Channel Partner and Certified Integrator Programs

The SARGENT IN100 is part of a stream of new ASSA ABLOY products that integrate with a facility's access control system. These exciting new technology-rich products require an increase in knowledge to ensure the correct selection and implementation in various environments.

To aid our customers in this area, ASSA ABLOY has created two programs that provide the necessary training to sell, order, install and service our technology products, including Aperio wireless, Integrated Wiegand, IP-enabled and self-configurable intelligent components:



- The Authorized Channel Partner (ACP) program is open to resellers, who sell ASSA ABLOY's technology products to certified integrators and help with product selection based on the application.



- The Certified Integrator (CI) program provides hands-on training for security systems integrators and network administrators.

Not only does this training familiarize certified integrator candidates with product features and applications, it also gives them valuable experience installing, commissioning and troubleshooting the products in a real-world environment.

For more information on the qualifications for becoming an ACP or CI, contact your local ASSA ABLOY Door Security Solutions sales consultant.

Shown on cover:

IN100-7976-IP-MW-E4-H005-LHR

# IN100

## Aperio Wireless Access Control

FEATURES	BENEFITS
Utilizes IEEE 802.15.4 wireless communication	<ul style="list-style-type: none"><li>■ Eliminates the greatest cost and inconvenience of wired access control - the wiring around the door</li><li>■ Leverages EAC or IP infrastructure</li><li>■ Ideal for hard-to-wire locations</li></ul>
multiCLASS SE® Technology from HID Global®	<ul style="list-style-type: none"><li>■ Provides heightened security</li><li>■ Supports:<ul style="list-style-type: none"><li>– A wide range of credential technologies, offering easy migration to higher security credentials or consolidation of mixed credentials</li><li>– HID Mobile Access® powered by Seos®, for iOS® and Android™ devices</li></ul></li></ul>
Real-time communication	<ul style="list-style-type: none"><li>■ Alarms and events are communicated in real time to the EAC system</li><li>■ Access decisions are determined in real time by the EAC system</li><li>■ Schedules and door states can be initiated/changed in real time*</li></ul>
Customizable feature set	<ul style="list-style-type: none"><li>■ Select only the features you need</li><li>■ Add features as your requirements grow</li></ul>
Centralized decision making	<ul style="list-style-type: none"><li>■ System capacities bounded by the EAC system, not the locking device</li><li>■ Access decisions based on current EAC system information</li></ul>
Privacy button*	<ul style="list-style-type: none"><li>■ Allows shelter in place/local lockdown</li><li>■ Enables privacy capabilities for applications such as restrooms</li></ul>
Smart Credential Cache	<ul style="list-style-type: none"><li>■ Allows previously authorized credentials to be granted access when the EAC infrastructure is offline for any reason</li><li>■ Can be enabled/disabled</li><li>■ Programmable cache size/validity time</li></ul>
Integrated ANSI/BHMA Grade 1 hardware, available in cylindrical lock, mortise lock, and exit device configurations	<ul style="list-style-type: none"><li>■ Flexibility to support various openings</li><li>■ Assurance of high quality SARGENT hardware</li></ul>
Superior aesthetics	<ul style="list-style-type: none"><li>■ Blends into any environment seamlessly</li><li>■ Designed to meet the requirements of designers and architects</li><li>■ Available with a wide range of finishes and decorative levers</li><li>■ Suites with other IN Series locks, regardless of technology</li></ul>

\* Access Control Partner software dependent. Contact your local ASSA ABLOY Integrated Solutions Specialist for more information.

# IN100

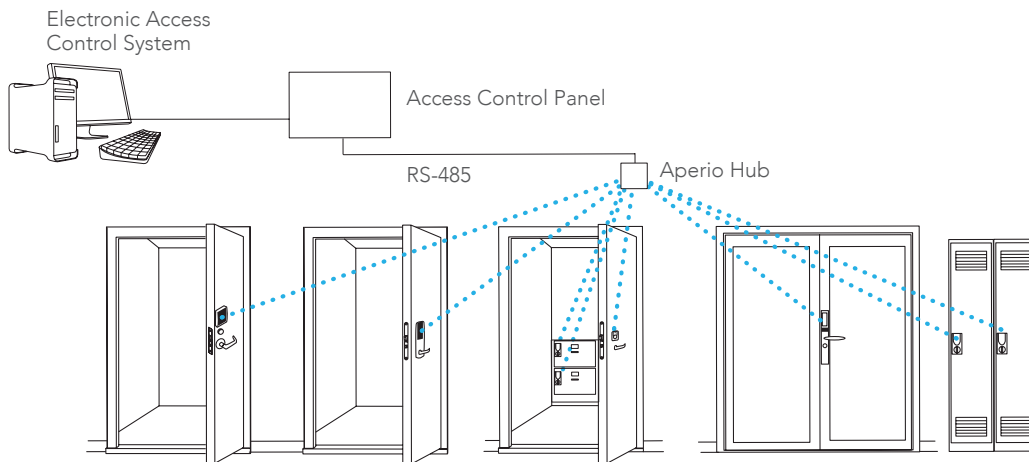
Aperio Wireless Access Control

## An innovative new approach to online access control

Aperio® technology is a global wireless platform that reduces the cost and inconvenience of traditional access control, with the flexibility to address any application.

Aperio utilizes local wireless communication between the lock and a communications hub to connect to an electronic access control system. You can easily expand the reach of existing access control systems and secure openings that would otherwise go unprotected.

With the global range of Aperio-enabled locks from ASSA ABLOY, online access control can be easy and cost-effective at any opening, with standardization across locations worldwide.



IP hub also available for direct connection to IT infrastructure

# IN100

Aperio Wireless Access Control

## Credential Support:

Featuring HID® multiCLASS SE® technology, the IN100 supports the following credentials:

- 2.4 GHz credentials:
  - Secure Identity Object(TM) (SIO) on mobile IDs (Bluetooth Smart)
- 3.56 MHz credentials:
  - iCLASS®
  - iCLASS SE® (SIO-enabled)
  - iCLASS® Seos®
  - SIO on MIFARE® Classic
  - SIO on MIFARE DESFire® EV1
  - MIFARE Classic
  - DESFire EV1
  - NFC-enabled mobile phones
- 125 kHz credentials:
  - HID Prox®
  - Kantech ioProx
  - AWID
  - EM4102

## Security:

- AES 128-bit encryption
- For specific security information, please contact your local ASSA ABLOY Door Security Solutions sales representative or call 800-810-Wire.

## Software:

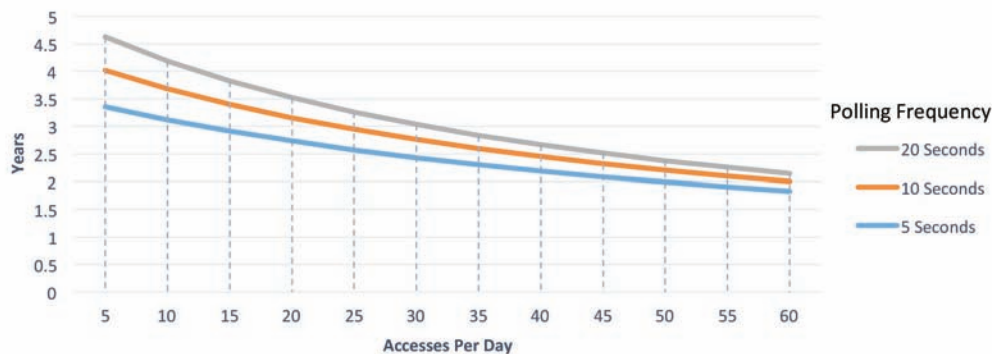
- Works with ASSA ABLOY Access Control Partner software, allowing simple integration into existing or new systems
- Software Development Kits (SDK) and support available to integrate into other third party access control systems. Email: OEMSupport\_Group@assaabloy.com for assistance.

## Environmental Specifications:

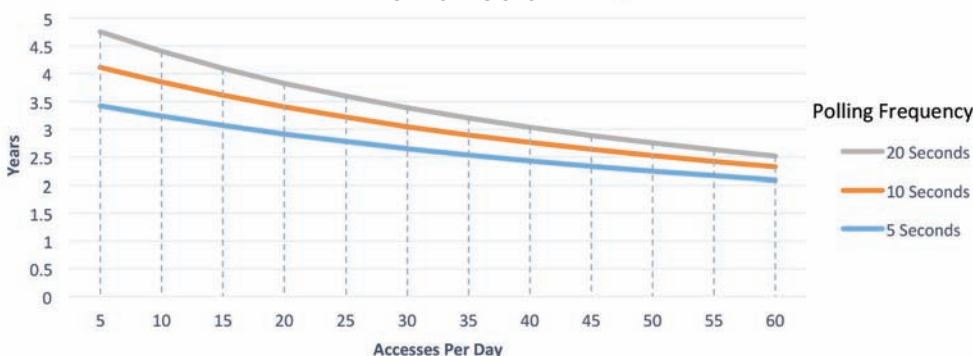
- Operating temperature: -13°F (-25°C) to 151°F (66°C)
- Humidity: < 85% non-condensing
- Storage temperature: -22°F (-30°C) to 176°F (80°C)

## Battery Life

CYLINDRICAL LOCKS & EXIT DEVICES



MORTISE LOCKS



\* Battery life data was calculated using Duracell batteries.

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## IN100 7900 Series Mortise Locks



### Mechanical Features

- Certified to ANSI/BHMA A156.13 Series 1000 Grade 1
- UL/ULC Listed for fire doors\*
- Motor driven 7900 Series Mortise Lock
- 3/4" projection stainless steel latchbolt, one-piece construction
- Steel deadbolt assembly with 13 gauge hardened steel insert, 1" (25mm) projection
- For 1-3/4" (44mm) thick door standard. Consult factory for additional thicknesses
- Stainless steel non-handed deadlocking latch
- Handing easily field reversible without disassembling lock body
- Lever trim through-bolted for increased security and durability

Shipping Weight: Approx. 11 lbs.

### IN100 Mortise Lock Functions

- Key outside always retracts latch
- Lever outside rigid except when valid credential presented
- Lever inside always retracts latch and deadbolt (if present)
- Guardbolt deadlocks latch
- Key override available with #41 cylinder supplied
- Low battery, request-to-exit (REX), and tamper signaling standard
- EcoFlex™ technology offers improved battery life

### 52-5374 Door Position Switch (DPS)

#### Supplied with IN100 mortise locks

- SPDT concealed switch (3-wire)
- 3/8" Diameter for wood door
- 3/4" Diameter for metal door
- - Metal door adapter included

**Note:** The DPS is installed right above the lock faceplate and connects directly into the lock's electronics

\* Any retrofit or other field modification to a fire rated opening can potentially impact the fire rating of the opening, and Sargent Manufacturing Company makes no representations or warranties concerning what such impact may be in any specific situation. When retrofitting any portion of an existing fire rated opening, or specifying and installing a new fire-rated opening, please consult with a code specialist or local code official (Authority Having Jurisdiction) to ensure compliance with all applicable codes and ratings.

# IN100

Aperio Wireless Access Control

Select from the following options to order IN100 mortise locks:

## Function

- 7976 Key override and deadbolt
- 7978 Key override and no deadbolt
- 7977 Deadbolt and no key override
- 7979 No deadbolt and no key override

## Reader

- B Black reader, black trim
- W White reader, white trim
- MB Black reader, metal trim
- MW White reader, metal trim

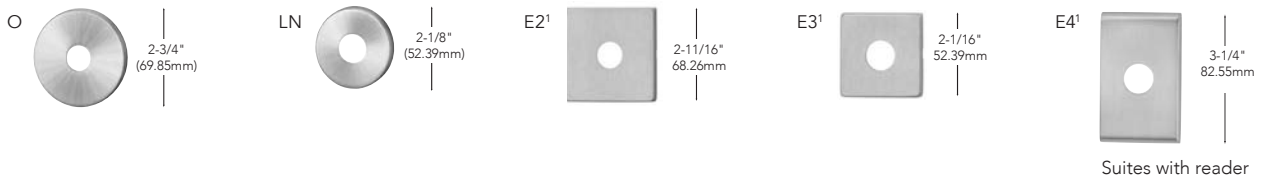
## Credentials

- IP HID iCLASS®, HID iCLASS SE® (SIO-enabled), HID iCLASS® Seos™, HID MIFARE® SE, HID DESFire® EV1 SE, HID Prox®, Kantech ioProx
- BIP All credentials supported by the IP option plus HID Mobile Access on Bluetooth Smart-enabled mobile phones
- IPS All credentials supported by the IP option plus MIFARE Classic, DESFire EV1\* and HID Mobile Access on NFC-enabled mobile phones
- BIPS HID iCLASS®, HID iCLASS SE® (SIO-enabled), HID iCLASS® Seos™, HID Prox®, MIFARE Classic, MIFARE DESFire EV1, and HID Mobile Access on NFC-enabled mobile phones and Bluetooth Smart-enabled mobile phones

\*IPS allows use of smart cards with user defined encryption and encoding, from HID or other third party suppliers.

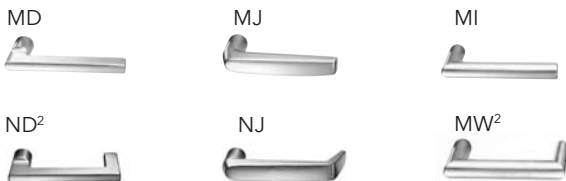
**Note:** Metal trim for the reader is supplied in the finish specified in the order string.

## Rose

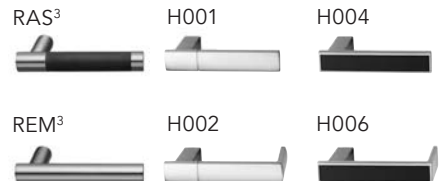


## Lever

The levers shown here are some of our most popular styles from the Studio Collection. To see the complete range of available levers, please refer to pages 13-16.



## Premium Levers



## Finish

- 03 Bright brass (ANSI 605)
- 04 Satin brass (ANSI 606)
- 09 Bright bronze (ANSI 611)
- 10 Satin bronze, clear powder (ANSI 612)
- 10B Oxidized satin bronze oil rubbed (ANSI 613)
- 10BE Dark oxidized satin bronze — equivalent
- 10BL Oxidized satin bronze, clear powder coat
- 14 Bright nickel, clear coated (ANSI 618)
- 15 Satin nickel, clear coated (ANSI 619)
- 20D Dark statuary bronze, clear powder coat
- 26 Bright chrome (ANSI 625)
- 26D Satin chrome (ANSI 626)
- BSP Black suede powder coat
- WSP White suede powder coat

## Handing

- LH Left hand
- LHR Left hand reverse
- RH Right hand
- RHR Right hand reverse

## Build Your Order String

Series	Function	Credentials	Reader	Rose	Lever	Finish	Handing
IN 100	7 9 7						

For additional cylinder and/or mechanical options, please refer to pages 20-22. Add the desired options to the beginning of your order string.

<sup>1</sup>1KA square cylinder collar and 130KA square backplate automatically supplied with E2,E3 and E4 roses.

<sup>2</sup>Lever returns within 1/2" (13 mm) of door face.

<sup>3</sup>Gramercy levers are customized. See page 17 for ordering information.

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## IN100 10 Line Cylindrical Locks



### Mechanical Features

- Certified ANSI/BHMA A156.2 Series 4000 Grade 1
- UL/ULC Listed for fire doors\*
- Motor driven cylindrical lock
- Latch Stainless Steel, 1/2" (13mm) throw
- 2-3/4" (70mm) backset standard
- For 1-3/4" (44mm) thick door standard. Consult factory for other thicknesses
- Handing easily field reversible without disassembling lock body
- Heavy duty lever spring return
- Steel mounting studs
- Not available with 83-, 84- options

Shipping Weight: Approx. 9 lbs.

### IN100 Cylindrical Lock Functions

- Key outside always retracts latch
- Lever outside rigid except when valid credential presented
- Lever inside always retracts latch
- Guardbolt deadlocks latch
- Key override standard with #C10-1 cylinder supplied
- Low Battery, Request-to-Exit (REX), and Tamper signaling standard
- Door Position Switch (DPS, P/N 52-5374) supplied

### 52-5374 Door Position Switch (DPS) Supplied with IN100 cylindrical locks

- SPDT concealed switch (3-wire)
- 3/8" Diameter for wood door
- 3/4" Diameter for metal door
- - Metal door adapter included

**Note:** The DPS is installed right above the lock faceplate and connects directly into the lock's electronics

IN100 10 Line cylindrical locks are UL Certified and Listed as part of an approved assembly<sup>1</sup> to the following certifications and standards:

- UL Listed per ANSI/SDI-BHMA A250.13
- ANSI/ASTM E330-2002
- ANSI/ASTM E1886-2005
- ASTM E1996-2009
- Testing Application Standard (TAS) 201-1994<sup>2</sup>
- Testing Application Standard (TAS) 202-1994<sup>2</sup>
- Testing Application Standard (TAS) 203-1994<sup>2</sup>
- UL Certification Directory ZHLL.R21744 Windstorm-rated Assemblies
- Listed on Florida Building Code Website: FL6728-R1
- Listed on Florida Building Code Website: FL4351-R1

<sup>1</sup>To meet assembly requirements, use in conjunction with doors from ASSA ABLOY Group brands CECO and CURRIES.

<sup>2</sup>Published in the "Florida Building Code"

\* Any retrofit or other field modification to a fire rated opening can potentially impact the fire rating of the opening, and Sargent Manufacturing Company makes no representations or warranties concerning what such impact may be in any specific situation. When retrofitting any portion of an existing fire rated opening, or specifying and installing a new fire-rated opening, please consult with a code specialist or local code official (Authority Having Jurisdiction) to ensure compliance with all applicable codes and ratings.



# IN100

Aperio Wireless Access Control

Select from the following options to order IN100 cylindrical locks:

## Function

10G77 Key override

## Reader

- B Black reader, black trim
- W White reader, white trim
- MB Black reader, metal trim
- MW White reader, metal trim

**Note:** Metal trim for the reader is supplied in the finish specified in the order string.

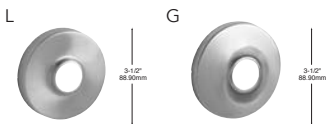
## Credentials

- IP HID iCLASS®, HID iCLASS SE® (SIO-enabled), HID iCLASS® Seos™, HID MIFARE® SE, HID DESFire® EV1 SE, HID Prox®, Kantech ioProx
- BIP All credentials supported by the IP option plus HID Mobile Access on Bluetooth Smart-enabled mobile phones

- IPS All credentials supported by the IP option plus MIFARE Classic, DESFire EV1\* and HID Mobile Access on NFC-enabled mobile phones
- BIPS HID iCLASS®, HID iCLASS SE® (SIO-enabled), HID iCLASS® Seos™, HID Prox®, MIFARE Classic, MIFARE DESFire EV1 and, HID Mobile Access on NFC-enabled mobile phones and Bluetooth Smart-enabled mobile phones

\* IPS allows use of smart cards with user defined encryption and encoding, from HID or other third party suppliers.

## Rose



## Lever



## Finish

- 03 Bright brass (ANSI 605)
- 04 Satin brass (ANSI 606)
- 09 Bright bronze (ANSI 611)
- 10 Satin bronze, clear powder (ANSI 612)
- 10B Oxidized satin bronze oil rubbed (ANSI 613)
- 10BE Dark oxidized satin bronze — equivalent
- 10BL Oxidized satin bronze, clear powder coat

- 14 Bright nickel, clear coated (ANSI 618)
- 15 Satin nickel, clear coated (ANSI 619)
- 20D Dark statuary bronze, clear powder coat
- 26 Bright chrome (ANSI 625)
- 26D Satin chrome (ANSI 626)
- BSP Black suede powder coat
- WSP White suede powder coat

## Handing

- LH Left hand
- LHR Left hand reverse
- RH Right hand
- RHR Right hand reverse

## Build Your Order String

Series	Function	Credentials	Reader	Rose	Lever	Finish	Handing
IN 100	1 0 G 7 7						

For additional cylinder and/or mechanical options, please refer to pages 20-22. Add the desired options to the beginning of your order string.

\* Lever returns within 1/2" (13 mm) of door face

# IN100

Aperio Wireless Access Control

**SARGENT**  
**ASSA ABLOY**

## 80 Series Exit Devices



Mortise Exit

Rim Exit

### Mechanical Features

- Certified ANSI/BHMA A156.3 Grade 1
- Latch 3/4" (19mm) throw (8800: stainless steel, 8900: anti-friction brass)
- Cylinder requirements: 8800 Series uses a #34 Rim Cylinder; 8900 Series uses a #46 Mortise Cylinder (1-3/4")
- For 1-3/4" (44mm) door standard. Consult factory for other thicknesses
- Available with Studio Collection, Coastal Series and all standard levers
- UL/ULC Listed for fire doors\*

Shipping Weight: Approx. 11 lbs.

### IN100 Exit Device Functions

- Lever outside rigid except when in passage mode or valid user code entered
- Always allows free egress
- Request-to-Exit (REX): monitors rail position
- Door Position Switch (DPS, part #52-5374) supplied; tamper signaling standard
- EcoFlex™ technology reduces energy consumption up to 95% as certified by GreenCircle

\* Any retrofit or other field modification to a fire rated opening can potentially impact the fire rating of the opening, and Sargent Manufacturing Company makes no representations or warranties concerning what such impact may be in any specific situation. When retrofitting any portion of an existing fire rated opening, or specifying and installing a new fire-rated opening, please consult with a code specialist or local code official (Authority Having Jurisdiction) to ensure compliance with all applicable codes and ratings.

# IN100

Aperio Wireless Access Control



Select from the following options to order IN100 exit devices:

## Function

- 8977 Mortise lock exit device, key override
- 8978 Mortise lock exit device, no key override
- 8877 Rim exit device, key override
- 8878 Rim exit device, no key override

## Credentials

- IP HID iCLASS®, HID iCLASS SE® (SIO-enabled), HID iCLASS® Seos™, HID MIFARE® SE, HID DESFire® EV1 SE, HID Prox®, Kantech ioProx
- BIP All credentials supported by the IP option plus HID Mobile Access on Bluetooth Smart-enabled mobile phones

- IPS All credentials supported by the IP option plus MIFARE Classic, DESFire EV1\* and HID Mobile Access on NFC-enabled mobile phones
- BIPS HID iCLASS®, HID iCLASS SE® (SIO-enabled), HID iCLASS® Seos™, HID Prox®, MIFARE Classic, MIFARE DESFire EV1 and, HID Mobile Access on NFC-enabled mobile phones and Bluetooth Smart-enabled mobile phones

\* IPS allows use of smart cards with user defined encryption and encoding, from HID or other third party suppliers.

## Reader

- B Black reader, black trim
- W White reader, white trim
- MB Black reader, metal trim
- MW White reader, metal trim

## Rail Size

- E: 24 - 32"
- F: 33 - 36"
- J: 37 - 42"
- G: 43 - 48"

## ET Trim

- ET 700 Series ET Trim



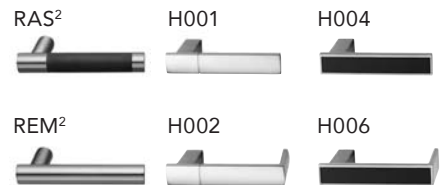
**Note:** Metal trim for the reader is supplied in the finish specified in the order string. It is not available in stainless steel (32/32D), but will be plated to match

## Lever

The levers shown here are some of our most popular styles from the Studio Collection. To see the complete range of available levers, please refer to pages 14-16.



## Premium Levers



## Finish\*

- |   |   |
|---|---|
| 03 Bright brass (ANSI 605)                      | 14 Bright nickel, clear coated (ANSI 618)   |
| 04 Satin brass (ANSI 606)                       | 15 Satin nickel, clear coated (ANSI 619)    |
| 09 Bright bronze (ANSI 611)                     | 20D Dark statuary bronze, clear powder coat |
| 10 Satin bronze, clear powder (ANSI 612)        | 26 Bright chrome (ANSI 625)                 |
| 10B Oxidized satin bronze oil rubbed (ANSI 613) | 26D Satin chrome (ANSI 626)                 |
| 10BE Dark oxidized satin bronze — equivalent    | 32 Bright stainless steel (ANSI 629)        |
| 10BL Oxidized satin bronze, clear powder coat   | 32D Satin stainless steel (ANSI 630)        |
|   | BSP Black suede powder coat                 |
|   | WSP White suede powder coat                 |

## Handing

- LHR Left hand reverse
- RHR Right hand reverse

## Door Width

Specify in inches

\* Exit Devices ordered in 32 or 32D will have the ET trim and lever supplied in 26 or 26D; for nickel finished ET trim, specify 14 or 15 finish and the exit will be supplied in 32 or 32D accordingly.

## Build Your Order String

Technology	Function	Credentials	Reader	Rail Size	ET Trim	Lever	Finish	Handing	Door Width (in inches)
IN	100	8			E T				

For additional cylinder and/or mechanical options, please refer to pages 20-23. Add the desired options to the beginning of your order string.

<sup>1</sup> Lever returns within 1/2" (13 mm) of door face.

<sup>2</sup> Gramercy levers are customized. See page 18 for ordering information.

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## Alternate Power Options



### Hard Power Option (91-)

The IN100 allows hard powering via an input of 12 to 24V DC and draws 200mA at 12V DC in always connected mode. SARGENT offers a range of power supplies suitable for this application.

### 12VDC & 24VDC Power Supplies

- UL Class 2 Listed filtered and regulated supply
- Four 12V models and four 24V models available
- Integral battery charging capability keeps sealed lead acid gel/cell at full charge in case of line voltage failure (737-battery sold separately)
- Fused line voltage input with one, four, or eight DC outputs (depending on model)
- Each circuit can be individually turned on and off via a slide switch; the power status of each is shown by an LED
- In the event of a DC short, the problem is confined to the zone of difficulty
- Fire alarm interface standard

Model	Description
3521	12V - 1 Amp power supply
3541	12V - 3 Amp power supply
3551	12V - 4.5 Amp power supply
3571	12V - 6 Amp power supply
737	12V - 5 Amp 1 hour backup battery

Model	Description
3520	24V - 1 Amp power supply
3540	24V - 2 Amp power supply
3550	24V - 4 Amp power supply
3570	24V - 6 Amp power supply
738	24V - 5 Amp 1 hour backup battery

ElectroLynx® hinges and harnesses required for hard-powered IN100 applications are available through McKINNEY.

### 52-4824 91- Hard Power Kit

- Included with 91- prefix option IN100 units
- Allows for hard powering (91-) of IN100 (required for certain monitoring features)
- Compatible with ElectroLynx® system



### Securiton PowerJump® ICPT

The IN100 can also be used with the Securiton PowerJump® ICPT (Inductive Coupling Power Transfer) to port power contactlessly and invisibly across the door gap. Available through Securiton.

## Accessories

### Cover Plate Kits

79-5000	IN Series mortise lock, 7976 (key override, with deadbolt), 32D finish
79-5001	IN Series mortise lock, 7977 (no key override, with deadbolt), 32D
79-5002	IN Series mortise lock, 7978 (key override, no deadbolt), 32D finish
79-5003	IN Series mortise lock, 7979 (no key override, no deadbolt), 32D finish
10-5008	IN Series cylindrical lock, 10G77 (with key override), 32D finish

### Aperio Configuration Kits

Aperio offers the flexibility to make field configurations easily and without any special equipment. Configuration adjustments can be made to the Aperio hub and Aperio locks using the Aperio Programming tool software and Aperio USB programming dongle from a Windows netbook or laptop with an available USB port.

- Requirements for Operation:
  - Laptop or Netbook with:
    - Windows 7, 8, 8.1, 10
    - USB 2.0 port
- APA-10-PC Aperio Programming Application Tool Kit
  - USB Flash Drive
    - Programming Application Tool Software and License Files
    - Aperio Instructions (electronic files)
    - Trittech Tribec USB Radio Dongle (APD-10-USB)
  - HID iCLASS/Prox Card
- APD-10-USB Aperio Configuration USB Dongle
  - Trittech Tribec USB Radio Dongle
  - Included in APA-10-PC Kit
- 52-1635 USB cable
  - USB cable is a stand-alone item (sold separately)

### Integration Tools for ASSA ABLOY Locks

ASSA ABLOY electronic access control locks integrate with a range of industry-leading access control systems. For more information on which systems support our Aperio enabled locks, please contact your local ASSA ABLOY Door Security Solutions office, [www.assaabloydss.com](http://www.assaabloydss.com). To learn more about how to integrate these and other ASSA ABLOY products with your system, please call 800-810-WIRE.

## Aperio® Hub



The Aperio hub is available in a Mercury version for completely seamless integration into Mercury-based access control systems. Please contact your Mercury-based access control provider for ordering information.



The IN100 lock uses short distance wireless transmission (IEEE 802.15.4, 2.4 GHz) to communicate with an Aperio hub, which is connected to an access control system via IP, RS-485 or Wiegand.

### Specifications:

- Wireless Communication: IEEE 802.15.4 (2.4 GHz)
- Wireless Range: 50 feet (depending on installed environment)
- EAC Communication: IP, RS-485 or Wiegand
- Power: Powered using Power over Ethernet (PoE) or external power supply (8-24VDC)
- Security: AES 128 encryption
- Operating Temperature: 41°F (5 °C) to 95°F (35 °C)
- Humidity: < 95% maximum (non-condensing)

### Ordering Aperio Hubs

	SERIES	HARDWARE VERSION	HARDWARE CONFIGURATION	CONFIGURATION CODE*
	AH	20: Wiegand hub; 30: RS-485 hub; 40: IP hub	W14: Wiegand 1:1; R12: RS-485 1:8; IN2: IP 1:16	NNNN
Ex.:	AH	30	R12	NNNN

\*NNNN is the standard configuration code for Aperio hubs. Access Control Partners should contact 800-810-WIRE for specific ordering information

### Aperio Hub Accessories:

- EXT-10-ANT Aperio External Antenna

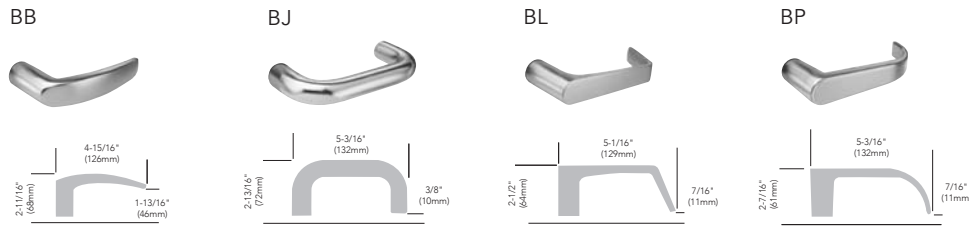
Aperio hubs are certified for use with the ASSA ABLOY external (omnidirectional) antenna EXT-10-ANT. The external antenna may be used to obtain more even radio coverage (in the form of a doughnut) around the hub. Please note that the antenna does not extend the maximum range of the Aperio hub.

### Specifications:

- For indoor use only
- Operating Temperature: 32°F (0 °C) to 113°F (45 °C)
- Humidity: < 95% maximum (non-condensing)

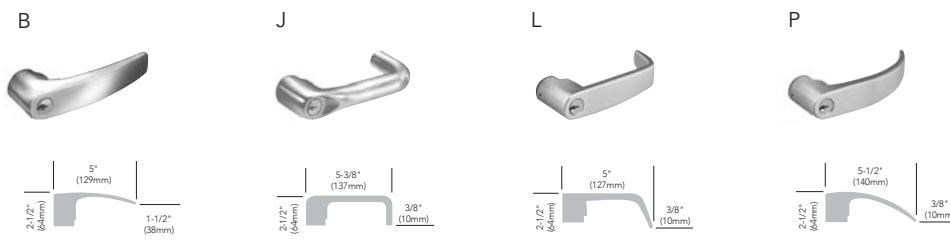
### Standard Levers (7900 Series Mortise Locks and 80 Series Exit Devices)

- All levers meet ADA national code requirements
- Lever designs BJ, BL and BP have lever returns within 1/2" (13mm) of door face and meet California State Reference Fire Code
- Levers BB, BL, BJ & BP are only available with the O rose



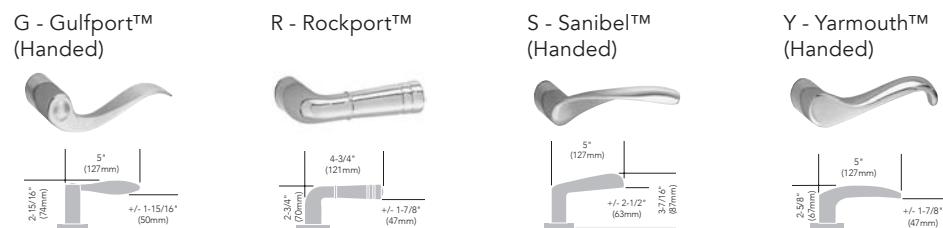
### Standard Levers (10 Line Cylindrical Locks)

- All levers meet ADA compliance for national codes
- Solid forged or cast
- Lever designs J, L and P have lever returns within 1/2" (13mm) or less of door face and meet California State Reference Fire Code
- All lever height (+/- 1/16") measurements represent total distance from door face



### The Coastal Series™ (7900 Series Mortise Locks and 80 Series Exit Devices)

- All levers meet ADA compliance for national codes
- Levers are solid cast brass
- Finishes available — 3, 4, 9, 10, 10B, 10BE, 10BL, 14, 15, 20D, 26, 26D
- All lever height (+/- 1/16") measurements represent total distance from door face

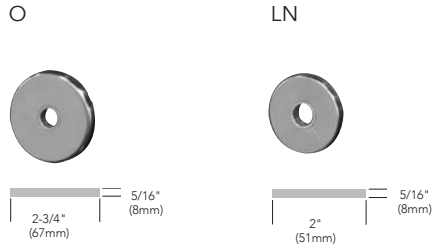


Standard lever options are only available with O roses.

# IN100

Aperio Wireless Access Control

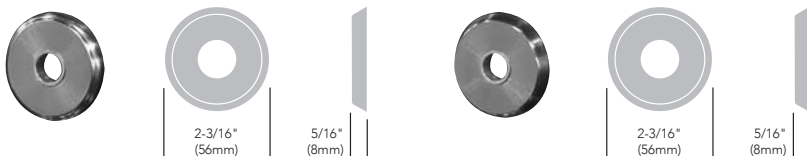
## Standard Roses (7900 Series Mortise Locks)



## Coastal Series Roses (7900 Series Mortise Locks)

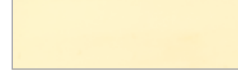
TR Traditional Rose  
(Dual radii edge)

CR Contemporary Rose  
(Beveled edge)



## Available Finishes

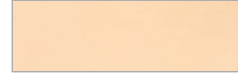
03 Polished Brass



04 Satin Brass



09 Polished Bronze



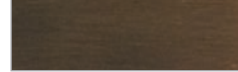
10 Satin Bronze



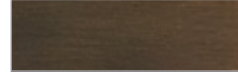
10B Oxidized Bronze



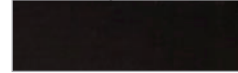
10BE Dark Oxidized Satin Bronze — equivalent



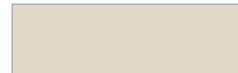
10BL Oxidized Satin Bronze



20D Statuary Dark Bronze



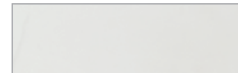
14 Polished Nickel



15 Satin Nickel



26 Polished Chrome



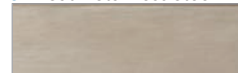
26D Satin Chrome



32 Polished Stainless Steel



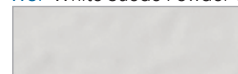
32D Satin Stainless Steel



BSP Black Suede Powder Coat



WSP White Suede Powder Coat





# IN100

Aperio Wireless Access Control

## Studio Collection Trim (7900 Series Mortise Locks and 80 Series Exit Devices)

Studio Collection trim is available in a broad array of designs and finishes for uniformity throughout a facility.

All levers meet ADA compliance for national codes. Visit the online Decorative Hardware Product Selector at [selector.sargentlock.com](http://selector.sargentlock.com) to mix and match styles and finishes.

## Wooster Square Series



## Aventura Series



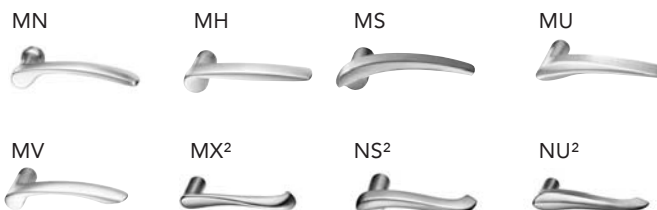
## Gramercy Series<sup>3</sup>



## Centro Series



## Odéon Series<sup>4</sup> (Handed Levers)



## Rialto Series (MZ Lever is Handed)



## Notting Hill Series (Handed Levers)



## Grant Park Series



<sup>1</sup>Contact factory for current lead times

<sup>2</sup>Lever returns within 1/2" (13mm) of door face

<sup>3</sup>Gramercy levers are customized.

See page 17 for ordering information

<sup>4</sup>Odéon Series are not available in 32D

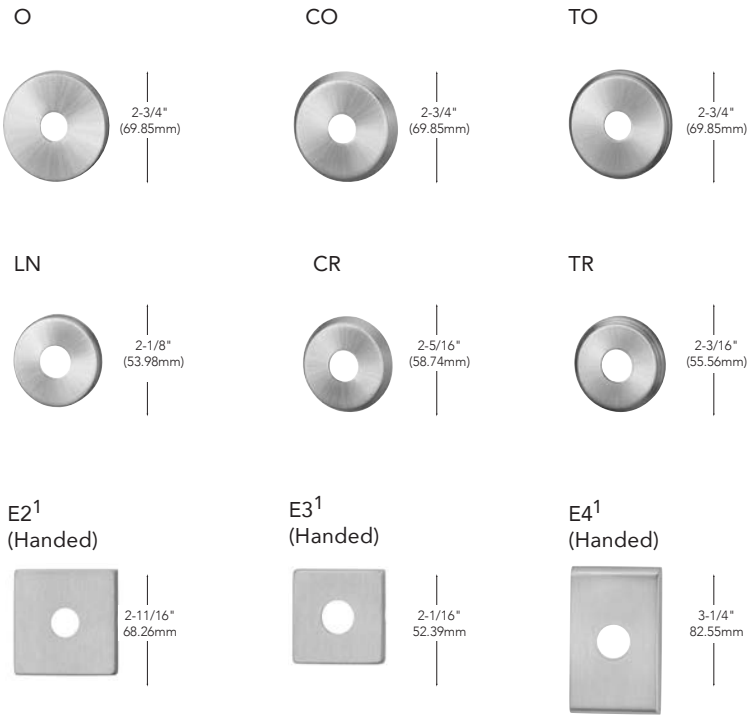
Note: H003 - H006 contains white or black polycarbonate insert

# IN100

Aperio Wireless Access Control

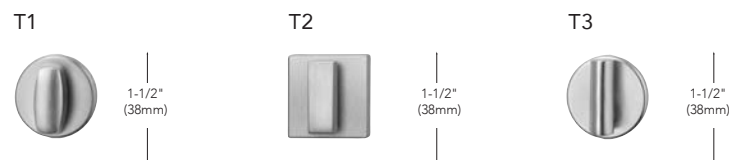
## Studio Collection Trim

### Roses (7900 Series)

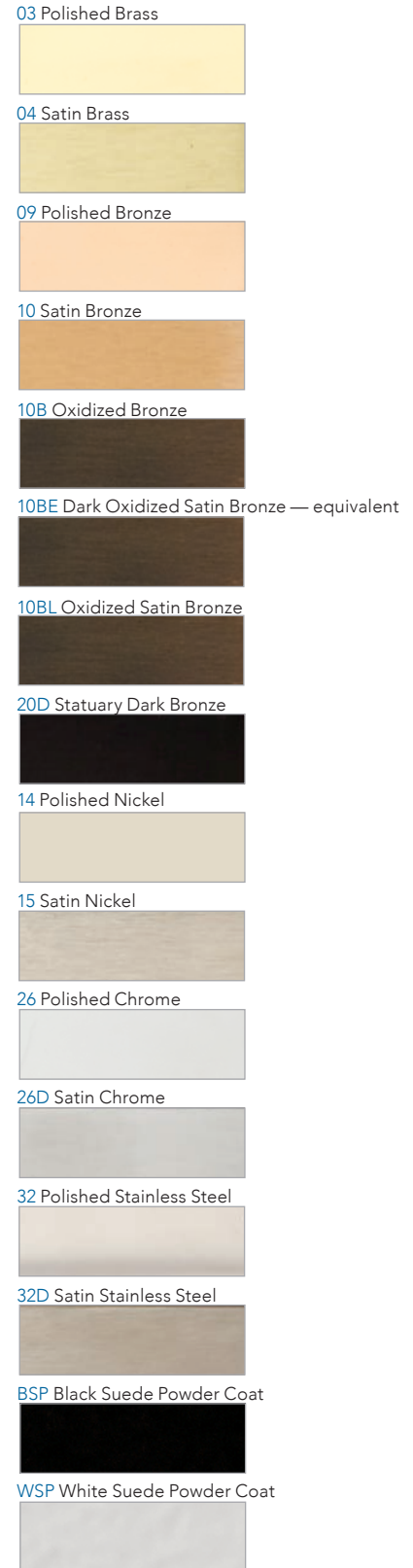


### Thumbturns (7900 Series)

Thumbturn backplate will match rose design chosen. Specify T1, T2 or T3 as a prefix option for decorative turns.



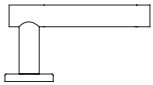
## Available Finishes



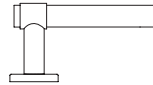
¹ 1KA square cylinder collar and 130KA square backplate automatically supplied with E2, E3 and E4 roses.

## Ordering Gramercy Series Levers (7900 Series Mortise Locks and 80 Series Exit Devices)

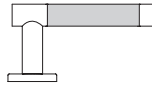
REM, RGM



RCM



RAG, RAL, RAM, RAS



## Gramercy Finish Codes

BHMA FINISH	SARGENT FINISH	GRAMERCY CODE	DESCRIPTION
630	32D	30	Satin Stainless Steel
629	32	29	Bright Stainless Steel
N/A	N/A	BK	Black (Santoprene™ or leather insert)
N/A	N/A	BN	Brown (leather insert)
613E	10B	3E	Dark Oxidized Satin Bronze, Equivalent
N/A	BSP	BS	Black Suede Powder Coat
N/A	WSP	WS	White Suede Powder Coat

\*Code used to specify Gramercy Series finishes only. Use available finishes list to specify desired finish when ordering.

## Gramercy Lever Descriptions and Available Finishes

LEVER DESIGNATION	LEVER DESCRIPTION	AVAILABLE FINISHES (AS ORDERED)
RAG	Grooved Insert	3E3E, BSBS, WSWs, 3030, OR 2929
RAL	Leather Insert	3EBK3E, 3EBN3E, BSBKBS, BSBNBS, WSBKWS, WSBNWS, 30BK30, 30BN30, 29BK29, OR 29BN29
RAM	Metallic Insert	2930** only
RAS	Santoprene Insert	3EBK3E, BSBKBS, WSBKWS, 30BK30, OR 29BK29
RCM	Raised Band	3E3E, BSBS, WSWs, 3030, 2929, or 2930**
REM	Plain	3E3E, BSBS, WSWs, 3030, OR 2929
RGM	Two Grooves	3E3E, BSBS, WSWs, 3030, 2929 OR 2930

\*\*Two-tone finish — grip of lever is 32D, balance of lever is 32. Rose/escutcheon and lock finish will be 32.

When specifying finish, use the last two digits of the BHMA standard finish code, i.e. use "29" for polished stainless, BHMA finish 629.

## Replacement Parts

### Outside Escutcheon (Reader) & Controller

IN-100-EM01[locktype] <sup>1</sup> -IP-B	HID iCLASS®, HID iCLASS SE® (SIO-enabled), HID iCLASS® Seos™, HID MIFARE® SE, HID DESFire® EV1 SE, HID Prox®, Kantech ioProx; black
IN-100-EM01[locktype] <sup>1</sup> -IP-W	HID iCLASS®, HID iCLASS SE® (SIO-enabled), HID iCLASS® Seos™, HID MIFARE® SE, HID DESFire® EV1 SE, HID Prox®, Kantech ioProx; white
IN-100-EM01[locktype] <sup>1</sup> -IP-MB-[finish]*	HID iCLASS®, HID iCLASS SE® (SIO-enabled), HID iCLASS® Seos™, HID MIFARE® SE, HID DESFire® EV1 SE, HID Prox®, Kantech ioProx; black with metal trim
IN-100-EM01[locktype] <sup>1</sup> -IP-MW-[finish]*	HID iCLASS®, HID iCLASS SE® (SIO-enabled), HID iCLASS® Seos™, HID MIFARE® SE, HID DESFire® EV1 SE, HID Prox®, Kantech ioProx; white with metal trim
IN-100-EM01[locktype] <sup>1</sup> -BIP-B	All credentials supported by the IP option plus HID Mobile Access on Bluetooth Smart-enabled mobile phones; black
IN-100-EM01[locktype] <sup>1</sup> -BIP-W	All credentials supported by the IP option plus HID Mobile Access on Bluetooth Smart-enabled mobile phones; white
IN-100-EM01[locktype] <sup>1</sup> -BIP-MB-[finish]*	All credentials supported by the IP option plus HID Mobile Access on Bluetooth Smart-enabled mobile phones; black with metal trim
IN-100-EM01[locktype] <sup>1</sup> -BIP-MW-[finish]*	All credentials supported by the IP option plus HID Mobile Access on Bluetooth Smart-enabled mobile phones; white with metal trim
IN-100-EM01[locktype] <sup>1</sup> -IPS-B	All credentials supported by the IP option plus MIFARE Classic, DESFire EV1 and HID Mobile Access on NFC-enabled mobile phones; black
IN-100-EM01[locktype] <sup>1</sup> -IPS-W	All credentials supported by the IP option plus MIFARE Classic, DESFire EV1 and HID Mobile Access on NFC-enabled mobile phones; white
IN-100-EM01[locktype] <sup>1</sup> -IPS-MB-[finish]*	All credentials supported by the IP option plus MIFARE Classic, DESFire EV1 and HID Mobile Access on NFC-enabled mobile phones; black with metal trim
IN-100-EM01[locktype] <sup>1</sup> -IPS-MW-[finish]*	All credentials supported by the IP option plus MIFARE Classic, DESFire EV1 and HID Mobile Access on NFC-enabled mobile phones; white with metal trim
IN-100-EM01[locktype] <sup>1</sup> -BIPS-B	All credentials supported by the IPS option, plus HID Mobile Access on NFC-enabled and Bluetooth Smart-enabled mobile phones; black
IN-100-EM01[locktype] <sup>1</sup> -BIPS-W	All credentials supported by the IPS option, plus HID Mobile Access on NFC-enabled and Bluetooth Smart-enabled mobile phones; white
IN-100-EM01[locktype] <sup>1</sup> -BIPS-MB	All credentials supported by the IPS option, plus HID Mobile Access on NFC-enabled and Bluetooth Smart-enabled mobile phones; black with metal trim
IN-100-EM01[locktype] <sup>1</sup> -BIPS-WB	All credentials supported by the IPS option, plus HID Mobile Access on NFC-enabled and Bluetooth Smart-enabled mobile phones; white with metal trim

### IN-100-EM04 Inside Mounting Kit (mounting plate and hardware)

#### Lockbodies

IN100-7976-[finish]*-[handing]	IN100 mortise lockbody with deadbolt and cylinder
IN100-7977-[finish]*-[handing]	IN100 mortise lockbody with deadbolt (no cylinder)
IN100-7978-[finish]*-[handing]	IN100 mortise lockbody with cylinder (no deadbolt)
IN100-7979-[finish]*-[handing]	IN100 mortise lockbody only (no deadbolt, no cylinder)
IN100 777-8 ET X [lever] X [finish] X [handing] X [door thickness]	Rim exit device without key override
IN100 778-8 ET X [lever] X [finish] X [handing] X [door thickness]	Rim exit device with key override
IN100 777 ET X [lever] X [finish] X [handing] X [door thickness]	Mortise exit device without key override
IN100 778 ET X [lever] X [finish] X [handing] X [door thickness]	Mortise exit device with key override
10-3452	IN100 cylindrical lockbody, standard cylinder
10-3453	IN100 cylindrical lockbody, LFIC (removable core)
10-3454	IN100 cylindrical lockbody, SFIC
10-3455	IN100 cylindrical lockbody, Keso
10-3456	IN100 cylindrical lockbody, Medeco Keymark LFIC & Schlage full size interchangeable core

\* Select from finishes on page 16.

<sup>1</sup> Specify locktype/function (see pages 7-11 for more information): 7976, 7977, 7978, 7979, 10G77, 8877, 8878, 8977, 8978

Example: IN-100-EM017976-IP-MB-26D

## Inside Escutcheon (Battery Cover)

IN-100-EM02-B	Black
IN-100-EM02-W	White
IN-100-EM02-MB-[finish]*	Black with metal trim
IN-100-EM02-MW-[finish]*	White with metal trim

## 52-5374 Door Position Switch (DPS)

- SPDT concealed switch (3 wire)
- 3/8" diameter for wood door
- 3/4" diameter for metal door  
- Metal door adapter included
- Supplied with IN100 cylindrical and mortise locks

## Mechanical Options

STRIKE OPTIONS	28-	4-7/8" Strike #808. Lip length 1-1/4 (10 line only)
	WBS-	Wrought Box Strike
10 LINE BRACKET OPTIONS	20-	2-3/8" Backset Latch with 1" Front
	23-	3-3/4" Backset x 2-1/4" x 1-1/8" Front (10 Line only)
	25-	5" Backset x 2-1/4" x 1-1/8" Front (10 Line only)
SECURITY FASTENERS	36-	Six lobe security head screws
	37-	Spanner head screws
3/4" LATCH THROW	41-	3/4" (19mm) throw latch x 2-3/4" (70mm) backset (10 Line only)
TACTILE WARNING OPTIONS	75-	Tactile Warning — Milled Inside Lever (Not available with Studio and Coastal Levers and the A Lever)
	76-	Tactile Warning — Milled Outside Lever (Not available with Studio and Coastal Levers and the A Lever)
	77-	Tactile Warning — Milled Inside and Outside Lever (Not available with Studio and Coastal Levers and the A Lever)
	85-	Tactile Warning — Abrasive Coating on Inside Lever
	86-	Tactile Warning — Abrasive Coating on Outside Lever
	87-	Tactile Warning — Abrasive Coating on Outside Lever
FINISH PROTECTION	CPC-	Clear Powder Coat (Available for 26, 26D, 32 and 32D Finishes)
	SG-	MicroShield® antimicrobial clear powder coat (Not available with 10B Finish)
ELECTRICAL OPTIONS	91-	Power wiring harness
THUMBTURNS (SEE PAGE 16)	T1-	Decorative thumbturn; backplate matches rose design chosen
	T2-	Decorative square thumbturn; backplate matches rose design chosen
	T3-	Decorative cylinder thumbturn; backplate matches rose design chosen

\* Select from finishes on page 16.

<sup>1</sup> Specify locktype/function (see pages 7-11 for more information): 7976, 7977, 7978, 7979, 10G77, 8877, 8878, 8977, 8978

Example: IN-100-EM017976-IP-MB-26D

## Cylinder Options

DEGREE CYLINDERS	DG1-	SARGENT Degree Key System Level 1 (Bump resistant with patented keys)
	DG1-21-	Degree Level 1 Construction Master Keying
	DG1-60-	Degree Level 1 Removable Disposable Construction Core
	DG1-63-	Degree Level 1 Removable Core
	DG1-64-	Degree Level 1 Removable Construction Keyed LFIC
	DG1-65-	Degree Level 1 Unassembled/Uncombined Core
	DG2-	SARGENT Degree Key System Level 2 (Geographically exclusive; bump and pick resistant)
	DG2-21-	Degree Level 2 Construction Master Keying
	DG2-60-	Degree Level 2 Removable Disposable Construction Core
	DG2-63-	Degree Level 2 Removable Core
	DG2-64-	Degree Level 2 Removable Construction Keyed LFIC
	DG2-65-	Degree Level 2 Unassembled/Uncombined Core
	DG3-	SARGENT Degree Key System Level 3 (Geographically exclusive; UL437 certified; bump and pick resistant)
	DG3-21-	Degree Level 3 Construction Master Keying
	DG3-60-	Degree Level 3 Removable Disposable Construction Core
	DG3-63-	Degree Level 3 Removable Core
	DG3-64-	Degree Level 3 Removable Construction Keyed LFIC
	DG3-65-	Degree Level 3 Unassembled/Uncombined Core

## Cylinder Options

CONVENTIONAL CYLINDER	—	SARGENT Conventional Cylinders supplied Standard (Nomenclature not required)
SIGNATURE KEY SYSTEM	10-	SARGENT Signature Key System (Not Available with other Key Systems)
	10-21-	SARGENT Signature Construction Key System (Lost Ball)
SIGNATURE: LARGE FORMAT INTERCHANGEABLE CORE (REMOVABLE CORE)	10-63-	SARGENT Signature LFIC (Removable Core) Cylinder
XC- KEY SYSTEM	11-	XC Key System (not available with 10-, 10UL, 22- options)
	11-21-	XC- Construction Key System (Lost Ball)
XC- LARGE FORMAT INTERCHANGEABLE CORE (REMOVABLE CORE)	11-60-	Hardware to accept XC- Permanent LFIC (Removable Core), Disposable plastic Core — provided
	11-63-	Hardware provided with XC- LFIC (Removable Core) Cylinder — (Includes masterkeying, grand masterkeying)
	11-64-	Hardware provided with Keyed construction core to accept XC- LFIC (Removable) Permanent Core (ordered separately)
XC- SMALL FORMAT INTERCHANGEABLE CORE	11-70-7P-	Hardware to accept XC- SFIC ( 7 Pin) XC- Permanent Cores, plastic disposable core provided (10 line J lever not available)
	11-72-7P-	Hardware to accept XC- SFIC (7-Pin Keyed Construction Core provided) cylinder Permanent core ordered separately (10 Line J lever not available)
	11-73-7P-	Hardware supplied with XC- Small Format 7-Pin interchangeable core (Includes masterkeying, grand masterkeying) (10 Line J lever not available)
	11-65-73-7P-	Hardware provided to accept XC- Uncombined 7-Pin SFIC (Permanent) Core (Packed Loose) (10 Line J lever not available)
CONSTRUCTION KEY SYSTEMS	21-	SARGENT Lost Ball Construction Keying for Conventional, XC and Signature Series (N/A with 63-, 73-, 82-, SC- & SE-)
	22-	SARGENT Construction Split Key System for Conventional Cylinders (Existing Systems) (N/A with 10-, 11-, 63-, 73-, 82-, SC- & SE-)
OLD STYLE REMOVABLE CORE	51-	Removable Core Cylinder (Old Style) provided (Existing Systems Only) (Not available with 10 Line)
	52-	Removable Construction Core (Old Style) Permanent core ordered separately (Existing Systems Only) (Not available with 10 Line)
LARGE FORMAT INTERCHANGEABLE CORE (REMOVABLE CORE)	60-	Hardware to accept SARGENT Permanent LFIC (Removable Core), Disposable plastic Core provided (Permanent Cores Ordered Separately)
	63-	Hardware provided with LFIC (Removable Core) Cylinder — (Includes masterkeying, grand masterkeying)
	64-	Hardware provided with Keyed construction core to accept LFIC (Removable) Permanent Core (ordered separately)

## Cylinder Options

SMALL FORMAT INTERCHANGEABLE CORES	70-	Hardware to accept 6 or 7-Pin SFIC Permanent Cores, plastic disposable core provided (10 Line J lever not available)
	72-	Hardware to accept 6 or 7-Pin SFIC (Keyed Construction Core provided) Cylinder (Permanent Core Ordered Separately) (10 line J lever not available)
	73-	Hardware supplied with 6-Pin SFIC (Includes masterkeying, grand masterkeying) (10 Line J lever not available)
	65-73-	Hardware provided to accept Uncombined 6-Pin SFIC (Permanent) Core (Packed loose for field keying) (10 Line J lever not available)
	65-73-7P-	Hardware provided to accept Uncombined 7-Pin SFIC (Permanent) Core (Packed loose for field keying) (10 Line J lever not available)
	73-7P-	Hardware supplied with Small Format 7 Pin Interchangeable Core (Includes masterkeying, grand masterkeying) (10 Line J lever not available)
KESO & KESO F1	81-	Hardware provided with housings to accept Keso (83) and Keso F1 (F1-83-) removable cores (Not available with 10 Line) (Permanent Cores Ordered Separately)
	82-	Hardware provided with SARGENT Keso Security Cylinder
	F1-82-	Hardware provided with SARGENT Keso F1 Security Cylinder (Patented)
	83-	Hardware supplied with SARGENT Keso Security Removable Core cylinder (Not available with 10 Line)
	F1-83-	Hardware supplied with SARGENT Keso F1 Security Removable Core cylinder (Not available with 10 Line) (Patented)
84-	Hardware provided with SARGENT Keso Construction Cores (Not available with 10 Line) (Permanent Cores ordered separately)	
BUMP RESISTANT	BR-	Bump Resistant Cylinder (Available with Conventional and Conventional XC Cylinders Only)
LESS CYLINDER	LC-	Hardware supplied less cylinder
ACCEPTS SCHLAGE CYLINDERS	30-	10 Line Lever to accept Schlage Cylinder-Cylinder is not provided (10 Line only)
	SF-	L Lever to accept Medeco KeyMark Large Format Interchangeable and Schlage Full Size Interchangeable Core (10 Line only)
SCHLAGE KEYWAYS	SC-	Schlage C keyway cylinder, 0 bitted
	SE-	Schlage E keyway cylinder, 0 bitted



## Architectural Specifications



### 1.1 IN100 10 Line Series Cylindrical Locksets

#### Wireless Access Control Cylindrical Locks

- A. Aperio Access Control Cylindrical Locks to be 10-Line Series as manufactured by SARGENT Manufacturing of New Haven, CT.
- B. BHMA certified extra heavy duty, lever type cylindrical lock conforming to ANSI 156.2 Series 4000, Grade 1 standard and ANSI A117.1 accessibility guidelines. Motorized locking control of lever handle trim (solenoids not acceptable) with 1/2" anti-friction deadlocking latch, UL listed and labeled for up to 3 hour fire rated openings.
  - 1. Backset: 2-3/4 inches
- C. Wireless access control locking devices interface using local wireless connection between the lock and a nearby communications hub connecting via RS-485, IP or Wiegand to an online electronic access control system.
- D. Fully-encrypted AES 128 wireless communication between lock and communication hub (IEEE 802.15.4, 2.4 GHz) with no proprietary programming device requirements. Locks can operate independent of wireless connection or upstream power failure.
- E. Integrated reader supports HID® 125 kHz proximity credentials or ISO 14443 A/B and ISO 15693 13.56 MHz contactless credentials: HID® iCLASS / iCLASS SE (full authentication, all formats), MIFARE Classic and DESFire EV1 (full authentication, all formats); NFC (Near Field Communications) and HID® SIO-Enabled™ on mobile IDs (Bluetooth Smart).
  - 1. Valid/ invalid credential presentation viewable by means of LED indicators on outside escutcheon.
- F. Environmental Conditions: Conformally coated weather resistant electronic controller shall meet the following minimum requirements:
  - 1. Operating temperature: -13°F (-25°C) to 151°F (66°C)
  - 2. Operating humidity: < 85% non-condensing
- G. Provide Lock Installation Tool and USB Radio Dongle for initial lock setup and programming over the air or via USB connection.
- H. Monitoring: Software accessible monitoring (via SDK) of inside lever handle (Request-to-Exit), door position switch (DPS) integral to the lock (door open/closed status), forced door, unknown card, door held open, battery and tamper.
  - 1. Standard privacy function initiated from push button on inside escutcheon and cancelled upon activation of valid Request-To-Exit (REX) or user defined credentials.
    - a. Activation of privacy function is indicated by LED notification on inside escutcheon.
    - b. Redundant actuation of privacy button does not deactivate privacy mode.
- I. Emergency override access capability by mechanical key cylinder retraction of lock latch bolt without electronic activation necessary.
- J. Inside lever retracts latch bolt.
- K. Power Source: Powered by 6 AA alkaline batteries with LED indication of locked, programming mode and low capacity warning status conditions.
  - 1. Optional hard power by means of 12-24 VDC power supply.
- L. Cylinders: Reference 2.04 Keying for keying requirements



## 1.2 IN100 7900 Series Mortise Locksets

### Mortise Locks IN100 7900 Series

#### Mortise Lockset

- A. Wireless Access Control Mortise Locks to be 7900 Series as manufactured by SARGENT Manufacturing Company of New Haven, CT.
- B. BHMA certified extra heavy duty, lever type mortise lock conforming to ANSI 156.13 Series 1000, Grade 1 standard and ANSI A117.1 accessibility guidelines. Motorized locking control of lever handle trim (solenoids not acceptable) with 3/4" anti-friction deadlocking latch and 1" steel deadbolt with hardened insert. UL listed and labeled for up to 3 hour fire rated openings.
- C. Wireless access control locking devices interface using local wireless connection between the lock and a nearby communications hub connecting via RS-485, IP or Wiegand to an online electronic access control system.
- D. Fully-encrypted AES 128 wireless communication between lock and communication hub (IEEE 802.15.4, 2.4 GHz) with no proprietary programming device requirements. Locks can operate independent of wireless connection or upstream power failure.
- E. Integrated reader supports HID® 125 kHz proximity credentials or ISO 14443 A/B and ISO 15693 13.56 MHz contactless credentials: HID® iCLASS / iCLASS SE (full authentication, all formats), MIFARE Classic and DESFire EV1 (full authentication, all formats); NFC (Near Field Communications) and HID® SIO-Enabled™ on mobile IDs (Bluetooth Smart).
  - 1. Valid/ invalid credential presentation viewable by means of LED indicators on outside escutcheon.
- F. Environmental Conditions: Conformally coated weather resistant electronic controller shall meet the following minimum requirements:
  - 1. Operating temperature: -13°F (-25°C) to 151°F (66°C)
  - 2. Operating humidity: < 85% non-condensing
- G. Provide Lock Installation Tool and USB Radio Dongle for initial lock setup and programming over the air or via USB connection.
- H. Monitoring: Software accessible monitoring (via SDK) of inside lever handle (Request-to-Exit), door position switch (DPS) integral to the lock (door open/closed status), forced door, unknown card, door held open, battery and tamper.
  - 1. Standard privacy function initiated from push button on inside escutcheon and cancelled upon activation of valid Request-To-Exit (REX) or user defined credentials.
    - a. Activation of privacy function is indicated by LED notification on inside escutcheon.
    - b. Redundant actuation of privacy button does not deactivate privacy mode.
- I. Emergency override access capability by mechanical key cylinder retraction of lock latch bolt without electronic activation necessary.
- J. Inside lever retracts latch bolt.
- K. Power Source: Powered by 6 AA alkaline batteries with LED indication of locked, programming mode and low capacity warning status conditions.
  - 1. Optional hard power by means of 12-24 VDC power supply.
- L. Cylinders: Reference 2.04 Keying for keying requirements



## 3.1 IN100 80 Series Exit Devices

### Intelligent WiFi Exit Devices

- A. Aperio Wireless Access Control Rim & Mortise Exit Devices to be IN100-80 Series as manufactured by SARGENT Manufacturing of New Haven, CT.
- B. BHMA certified panic and exit device hardware conforming to ANSI 156.3, Grade 1 standard and ANSI A117.1 accessibility guidelines. Electronic motorized locking control of lever handle (solenoids not acceptable) contained completely within the body of the outside trim control. U.L. listed and labeled for either panic or "Fire Exit Hardware" for use on up to 3 hour fire rated openings.
  - 1. Mortise Exit Devices shall utilize a 3/4" anti-friction deadlocking latch with a 2-3/4" Backset.
- C. Wireless access control locking devices interface using local wireless connection between the lock and a nearby communications hub connecting via RS-485, IP or Wiegand to an online electronic access control system.
- D. Fully-encrypted AES 128 wireless communication between lock and communication hub (IEEE 802.15.4, 2.4 GHz) with no proprietary programming device requirements. Locks can operate independent of wireless connection or upstream power failure.
- E. Integrated reader supports HID® 125 kHz proximity credentials or ISO 14443 A/B and ISO 15693 13.56 MHz contactless credentials: HID® iCLASS / iCLASS SE (full authentication, all formats), MIFARE Classic and DESFire EV1 (full authentication, all formats); NFC (Near Field Communications) and HID® SIOEnabled™ on mobile IDs (Bluetooth Smart).
  - 1. Valid/ invalid credential presentation viewable by means of LED indicators on outside escutcheon.
- F. Environmental Conditions: Conformally coated weather resistant electronic controller shall meet the following minimum requirements:
  - 1. Operating temperature: -31°F to 150°F (-35°C to 65°C)
  - 2. Operating humidity: 5% to 95% relative humidity non-condensing
- G. Provide Lock Installation Tool and USB Radio Dongle for initial lock setup and programming over the air or via USB connection.
- H. Monitoring: Software accessible monitoring (via SDK) of inside push bar (Request-to-Exit), door position switch (DPS) integral to the device (door open/closed status), forced door, unknown card, door held open, battery and tamper.
- I. Emergency override access capability by mechanical key cylinder retraction of lock latch bolt without electronic activation necessary.
- J. Inside push bar retracts latch bolt for free egress.
- K. Power Source: Powered by 6 AA alkaline batteries with LED indication of locked, programming mode and low capacity warning status conditions.
  - 1. Optional hard power by means of 12-24 VDC power supply.
- L. Cylinders: Reference 2.04 Keying for keying requirements.

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