Warning

Changes or modifications to this device not expressly approved by ASSA ABLOY could void the user's authority to operate the equipment.

FCC:
This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Industry Canada:
This Class B digital apparatus meets all requirements of the Canadian Interference Causing Equipment Regulations. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Under Industry Canada regulations, this radio transmitter may only operate using an antenna of a type and maximum (or lesser) gain approved for the transmitter by Industry Canada. To reduce potential radio interference to other users, the antenna type and its gain should be so chosen that the equivalent isotropically radiated power (e.i.r.p.) is not more than that necessary for successful communication.

Conformément à la réglementation d’Industrie Canada, le présent émetteur radio peut fonctionner avec une antenne d’un type et d’un gain maximal (ou inférieur) approuvé pour l’émetteur par Industrie Canada. Dans le but de réduire les risques de brouillage radioélectrique à l’intention des autres utilisateurs, il faut choisir le type d’antenne et son gain de sorte que la puissance isotope rayonnée équivalente (p.i.r.e.) ne dépasse pas l’intensité nécessaire à l’établissement d’une communication satisfaisante.

Any retrofit or other field modification to a fire rated opening can potentially impact the fire rating of the opening, and SARGENT Manufacturing 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.

To avoid possible damage from electrostatic discharge (ESD), some basic precautions should be used when handling electronic components:

- Minimize build-up of static by touching and/or maintaining contact with unpainted metal surfaces such as door hinges, latches, and mounting plates especially when mounting electronic components such as readers and controllers onto the door.
- Leave components (reader and controller) protected in their respective anti-static bags until ready for installation.
- Do not touch pins, leads or solder connections on the circuit boards.

Operational Check

1-800-810-WIRE • www.sargentlock.com • A8204B
ASSA ABLOY, the global leader in door opening solutions
# General Description
The SARGENT IN220 Mortise lock combines superior aesthetics with the energy efficiency and streamlined architecture of Power-over-Ethernet (PoE) access control. PoE-enabled access control allows facilities to leverage existing network infrastructure for enhanced security and easier, more cost-effective installations. Featuring multiCLASS SE® technology, it supports multiple credential types, including mobile devices, for a future-proof solution that is convenient and secure.

# Hardware Specifications
- Complete lockset with on-board memory
- ADA compliant
- Easily retrofits existing door preps (mortise)
- Latch - Stainless steel
- Optional deadbolt - Hardened steel
- Guardbolt - Stainless steel, non handed
- Handing (RH/RHR/LH/LHR) must be specified, but is easily field-reversible without opening lock case
- Case - 12 gauge heavy duty wrought steel
- Cylinder retracts latchbolt (and deadbolt)
- Lock furnished for 1-3/4” doors. For other thicknesses, consult factory.
- Outside lever controlled by any combination of contactless reader or mechanical cylinder
- Inside lever retracts both latch and deadbolt
- May be used for indoor and outdoor applications
- ANSI/BHMA A156.25 Listed Grade 1 Compliant

NOTE: A weather-protective gasket is required for outdoor applications.

# Electronic Specifications
- HID® multiCLASS SE® technology offers support for the following credentials:
  - 2.4 GHz credential compatibility:
    - Secure Identity Object™ (SIO) on Mobile IDs (Bluetooth Smart)
  - 13.56 MHz credential compatibility:
    - iCLASS®
    - iCLASS SE® (SIO-enabled)
    - iCLASS Seos®
    - SIO on MIFARE® Classic
    - SIO on MIFARE® DESfire® EV1
    - DESfire® EV1
    - NFC-enabled mobile phones
  - 125 kHz credential compatibility:
    - HID Prox®
- Input Power: PoE Class 1 Device, as defined by IEEE 802.3af, requires less than to 3.84 watts over structured cabling
- Multiple time zone and holiday access scheduling
- First-in unlock or automatic unlock configuration based on specified time schedule
- 2,400 users per lock; 10,000 event audit trail
- Power Requirements: 55VDC, 90mA
- Privacy button
- UL Listed* - UL 294 Indoor Use
- CUL Listed - S319: Class 1
- UL 294 Access Control Ratings:
  | Destructive Attack | Level 1 |
  | Line Security      | Level 1 |
  | Endurance          | Level 4 |
  | Standby Power      | Level 1 |

*UL testing was conducted on product powered by UL Listed model 9001GR/AC injector; manufactured by Microsemi Corp.
## Parts Breakdown

<table>
<thead>
<tr>
<th>ITEM</th>
<th>PART NO./ORDER STRING</th>
<th>DESCRIPTION</th>
<th>QTY.</th>
</tr>
</thead>
<tbody>
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<td>Reader assembly - black plastic</td>
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<td>IN-220-EM01-[B*]IP-MB-xxx**</td>
<td>Reader assembly - black plastic with metal trim</td>
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<tr>
<td></td>
<td>IN-220-EM01-[B*]IP-MW-xxx**</td>
<td>Reader assembly - white plastic with metal trim</td>
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<td>IN-220-EM01-[B*]IPS-B</td>
<td>Reader assembly - black plastic</td>
<td></td>
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<tr>
<td></td>
<td>IN-220-EM01-[B*]IPS-W</td>
<td>Reader assembly - white plastic</td>
<td></td>
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<td></td>
<td>IN-220-EM01-[B*]CP-B</td>
<td>Reader assembly - FeliCa - black plastic</td>
<td></td>
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<td></td>
<td>IN-220-EM01-[B*]CP-W</td>
<td>Reader assembly - FeliCa - white plastic</td>
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<td></td>
<td>IN-220-EM01-[B*]CP-MB-xxx**</td>
<td>Reader assembly - black plastic with metal trim</td>
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<td></td>
<td>IN-220-EM01-[B*]CP-MW-xxx**</td>
<td>Reader assembly - white plastic with metal trim</td>
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<td>2</td>
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<td>Mounting plate assembly</td>
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<td>2a</td>
<td>IN-220-EM03</td>
<td>Controller assembly</td>
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<td>3</td>
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<td>Inside cover assembly - black plastic with metal trim</td>
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<td></td>
<td>IN-220-EM02-MW-xxx**</td>
<td>Inside cover assembly - white plastic with metal trim</td>
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</tbody>
</table>

*Specifying B indicates Bluetooth® Smart option when ordering

** Specify finish
### IN220 Mortise Lock

#### Parts Breakdown (Continued)

<table>
<thead>
<tr>
<th>ITEM</th>
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<td>IN-220-7976-hand-fin</td>
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<td>IN-220-7977-hand-fin</td>
<td>Lock body with deadbolt without cylinder</td>
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<td>IN-220-7978-hand-fin</td>
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<td></td>
<td>IN-220-82276-hand-fin</td>
<td>Lock body with deadbolt with cylinder (not shown)</td>
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<td>IN-220-82277-hand-fin</td>
<td>Lock body with deadbolt without cylinder (not shown)</td>
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<td></td>
<td>IN-220-82278-hand-fin</td>
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<td>IN-220-82279-hand-fin</td>
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<td>Consult Factory</td>
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<td>Lock front - 7900 - With deadbolt (shown)</td>
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<td>82-0578</td>
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<td>82-0579</td>
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<td>52-5373</td>
<td>Door Position Switch (DPS) Pack** -not required for 8200</td>
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<td>Mortise screw pack - specify finish (includes: wood and metal lock body screws, faceplate screws, and strike screws)</td>
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<td>14</td>
<td>A8204B</td>
<td>Instructions (this manual)</td>
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</tbody>
</table>
Installation Wiring

Overview
SARGENT IN220 PoE Typical Application

LMT: Lock Management Tool

A. PoE frame harness assembly
B. PoE data hinge from McKinney
C. PoE door harness* from McKinney
D. IN220 PoE Lock
E. DPS: Door Position Switch
   (Needed on Cylindrical and Exits only)
* Door width determines length
Notes:

- Connectors go on only one way. They cannot be placed in an incorrect position.
- Do not force and do not offset connectors
- Be sure they are completely seated (flush)
- PoE power source cannot be connected to a receptacle controlled by a switch
**A. Frame Harness Installation**

Components and wire harness supplied by McKinney. Suggested installation:

**Cut end / ceiling-side PoE harness:**

<table>
<thead>
<tr>
<th>PIN</th>
<th>Wire</th>
<th>Pair Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>White/Orange</td>
<td>2</td>
</tr>
<tr>
<td>2</td>
<td>Orange</td>
<td>2</td>
</tr>
<tr>
<td>3</td>
<td>White/Green</td>
<td>3</td>
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<tr>
<td>4</td>
<td>Blue</td>
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<tr>
<td>5</td>
<td>White/Blue</td>
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<tr>
<td>6</td>
<td>Green</td>
<td>3</td>
</tr>
<tr>
<td>7</td>
<td>White/Brown</td>
<td>4</td>
</tr>
<tr>
<td>8</td>
<td>Brown</td>
<td>4</td>
</tr>
</tbody>
</table>

Do not confuse pair numbers with pin numbers. A pair number is used for reference only (eg: 10BaseT Ethernet uses pairs 2 & 3). The pin numbers indicate actual physical locations on the plug and jack.

**Hinge side of PoE (Frame) harness:**

1. Feed cut end of harness into hole on hinge-side through single access hole.
2. Push one connector back through the hole and feed into the other access hole.
   - Each of the hinge-side harness connectors should end up threaded through a different access hole and matched to the same size pin connector from the door harness:
     - 4-pin male molex connector
     - 6-pin male molex connector with ground wire

---

**B. PoE Data Hinge**

Hinge-side harness connectors:
- 4-pin female molex connector
- 6-pin female molex connector with ground wire

Lock-side harness connectors:
- 4-pin female molex connector
- 6-pin female molex connector with ground wire
**PoE Door Harness**

Order of installation may vary. Refer to appropriate sections for instructions.

Hinge-side harness connectors:
- 4-pin male Molex connector
- 6-pin male Molex connector with ground wire

Lock-side harness connectors:
- Ring terminal
- Male RJ45 connector (crimped after cable is fed through door)

Notes:
- Connectors go on only one way. They cannot be plugged to incorrect position.
- Do not force and do not offset connectors.
- Be sure they are completely seated (flush).

---

**PoE Lock**

Order of installation may vary. Refer to appropriate sections for instructions.

1. Prop door open.
2. Using the ring terminal, carefully route the assembly through the door channel toward lock.
IN220 Mortise Lock

6 Lock Installation

1 Prepare Door

A. Verify Hand and Bevel of Door
   Stand on outside of locked door when determining door hand.

   ![Fig. 1A](image)

   LH
   Left Hand
   Hinges Left
   Open Inward

   LHRB
   Left Hand Reverse Bevel
   Hinges Left
   Open Outward

   RH
   Right Hand
   Hinges Right
   Open Inward

   RHRB
   Right Hand Reverse Bevel
   Hinges Right
   Open Outward

B. Verify Product Label

C. Door Preparation

Prior to installation, all holes must be free of burrs, debris and sharp edges.
Prepare door according to appropriate template (see website www.intelligentopenings.com).
- Field Template: A8150 (ships with product)
- Door Manufacturer’s Template: 4713
2A Prepare 7900 Lock Body*

*If 7900 is type of lock being installed

1. Reverse Lock Hand (If Required)

   Red surface of locking piece must face the outside/locked side of door. To rotate locking piece (Fig. 2A):
   a. Position lock body with red surface of locking piece visible.
   b. Insert blade type screwdriver into locking piece slot to rotate locking piece toward back of lock body.
   c. Rotate the locking piece 180° until RED surface is on opposite side.
     Note: Red indicates locked side (outside).

2. Reverse Latch Hand (If Required)

   a. Rotate the latchbolt 180° (Fig. 2B).
   b. Flip deadlatch by hand to match bevel of latchbolt.
IN220 Mortise Lock

2B  Prepare 8200 Lock Body*

*If 8200 is type of lock being installed

1. Reverse Lock Hand
   Red surface of locking piece must face the outside/locked side of door. To rotate locking piece (Fig. 2B1):
   a. Position lock body with red surface of locking piece visible.
   b. Insert blade type screwdriver into locking piece slot to rotate locking piece toward back of lock body.
   c. Rotate the locking piece 180° until RED surface is on opposite side.
      Note: Red indicates locked side (outside).

2. Reverse Latch Hand
   Beveled surface of latch must face strike (Fig. 2B2).
   The deadlatch is self adjusting.
   To change hand of latchbolt:
   a. Insert screwdriver into spade (triangular)-shaped slot.
   b. Rotate screwdriver 90° to push latch out until back of latch clears lock front; then rotate latch 180°.
      Latch will then re-enter lock body.
      Note: Latch cannot be unscrewed.
3 Install Door Position Switch (DPS)

1. Push wires through raceway toward lock prep.
2. Push DPS firmly into place by hand.
   Note: **DO NOT TAP SWITCH WITH ANY TOOL.**
3. Install magnet into door frame. Push firmly into place by hand.
   See instruction A7983A.

* Only required with the 7900 lock body - 8200 has an integrated DPS

CAUTION: if DPS is not installed or is installed improperly, door status monitoring features will not function.

Fig. 3

Inside of Door
**4 Install Lock Body**

Note: Do not pull the lock into the pocket using the harness alone. Ensure that the wire harness is not pinched between the lock and the mortise pocket.

1. Feed the wire harness into the mortise pocket and through inside preparation hole as depicted in Figure 4.
2. Carefully push the lock body into the pocket while lightly applying tension to the wire harness.
3. Insert (2) #12-24 screws into the lock body (Fig. 4) and tighten* with a screw driver.

*Do not fully tighten until cylinder and levers are installed and properly aligned.
5 Outside Cylinder Installation

1. Slide the spring and the rosette onto the cylinder.
2. Rotate the cylinder into cylinder hole with fingers.
3. Insert key 75% of the way and utilize the key to rotate the cylinder into the rest of the cylinder hole. 
   Note: Do not attempt to tighten all the way.
4. Verify that orientation of cylinder has the SARGENT logo as depicted in Fig. 5A.
5. Hand tighten the cylinder clamp screw with Phillips screwdriver to prevent unscrewing of the cylinder (Fig 5C).
6. Test cylinder function:
   - Key retracts latchbolt and deadbolt (7976 & 82276 functions).
   - Key retracts latchbolt (7978 & 82278 functions).
   - Cylinder not present for 7977, 7979, 82277 and 82279 functions.
6 Assemble Outside Trim

1. With outside lever horizontal, insert the mounting posts through outside of door and lock body. Make certain the lever spindle is properly engaged inside the lock body (Fig 6A).

2. On the inside of the door, insert spindle into square hole of mortise lock (Fig 6B).

3. Slide inside adapter and plate assembly over spindle and secure with (2) 8-32 X 5/8” Phillips oval head and lock washer machine screws.

NOTE: For 8200 Deco levers and all 7900 lever styles, ensure that position of set screw hole on inside adapter is oriented to match location of hole in inside lever handle. Also, ensure that slot in spindle is facing away from door (Fig. 6B), and is oriented to match location of hole in inside lever handle.
7 Install Inside Rose and Inside Lever Assembly

1. Place inside rose flush against door surface and rotate first counter-clockwise to seat the threads, then clockwise to securely tighten.
2. Slide lever onto spindle until fully seated. Be sure handle is horizontal and facing the hinge side of the door. Push lever onto spindle so minimum gap is visible.
3. Tighten the set screw securely with a T20 Torx® driver.
4. Finish securely tightening (2) #12-24 lock body screws.
5. Before closing the door, test that the lever is functional and ensure smooth operation of the latchbolt.
8 Install Thumb Turn

1. Insert thumb turn into preparation hole and engage slot in lock body.
2. Orient mounting plate so screw hole is vertical (aligned with preparation holes).
4. Test thumb turn for function by turning to retract and project the deadbolt.

9 Attach Front Plate

Attach front plate with (2) Phillips head screws.
10 Outside Reader and Mounting Plate Installation

1. Orient the reader so the LED lens is at the top.
2. Feed the cable/connector through the door (from outside to inside).
3. Install the reader to the outside of door by aligning the mounting posts with the door preparation holes. Hold the reader flush against door while ensuring proper alignment.
10 Outside Reader Installation (Continued)

4. Next feed the cables/connectors through the inside mounting assembly (and gasket if required*).
5. Insert and partially tighten (2) through-bolts prior to installation of connectors.

NOTE: Cable lengths exaggerated for illustrative purposes.

6. Secure both ground lugs with #6-32 machine screw (Fig.10C).

*Gasket is required for outdoor installations.
If installing with gasket; separate gasket from mounting plate to feed cables/connectors through holes as indicated (Fig. 10B).
Once cables/connectors are fed through, reattach gasket to mounting plate.
11 Installation of Connectors

CAUTION - Do not touch or allow debris to enter connector contacts.

Secure the following connectors to their respective terminals (Fig. 11A, B):

A. Secure the 4-pin DPS connector.
B. Secure the 10-pin lock body assembly connector.

IMPORTANT: Do not run wires through bottom hole in plate (Fig. 11A, B) - it will damage wires and the controller connector. Route wires around flange, do not route wires through the flange hole (Fig. 11B).

Secure Mounting Plate

1. Tuck excess cable into wire hole on inside of door.
2. Secure the mounting assembly while ensuring proper alignment of outside reader and fully tighten the (2) through-bolts on the inside of the door to secure the reader and plate to the door.

C. Secure the 24-pin card reader connector (Fig. 11B).

D. Crimp* RJ45 to Cat 5e cable from hinge (Fig. 11C).
*For more detail, refer to section (5) ‘Installation Wiring’, “A - Frame Harness Installation”.

TIA/EIA 568-B Standard Wiring

<table>
<thead>
<tr>
<th>PIN</th>
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</tr>
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</tbody>
</table>

Do not confuse pair numbers with pin numbers. A pair number is used for reference only (eg: 10BaseT Ethernet uses pairs 2 & 3). The pin numbers indicate actual physical locations on the plug and jack.
12 Installation of Inside Module Component Assembly

1. Insert top tabs of controller into slots on mounting plate (Fig. 12A, B).

2. Ensure proper alignment of board-to-board connectors while pivoting bottom of controller toward door until tab on bottom snaps securely into place on mounting plate.

CAUTION: To avoid possible damage to board-to-board connectors, care should be taken when securing controller to mounting plate. If there is resistance when securing, detach controller to determine cause before re-attaching controller.

3. Connect RJ45 male connector to female RJ45 port on controller board (Fig. 12B).

4. Remove pull tab from its position beneath the coin cell by pulling on tab in direction of arrows printed on tab (Fig. 12B).
13 Inside Cover Installation

1. Assemble cover by hooking top edge on inside mounting plate.
2. Carefully press bottom of cover toward door without pinching wires.
3. Secure the cover with the security allen wrench.
Operational Check

For 7976- and 7978-function mortise locks with cylinders:

1. Insert key into cylinder and rotate.
   There should be no friction against lock case, wire harness or any other obstructions.

2. Check that the key retracts the latch:
   the key should rotate freely.

3. Throw the deadbolt (if present): Check that the key retracts both the deadbolt and the latch.

4. Try the inside lever:
   Ensure it retracts latch and deadbolt (if installed).

5. Use a valid credential* set up with the Lock Configuration Tool to unlock outside lever and retract latch.
   Refer to Network and Lock Configuration Tool user manual (WFMN1) for information on how to configure and program locks.

Note: The credential should approach the inscription on the reader as indicated (Fig. 15B) to ensure that the credential is read properly.
Do not wave credential.

*Twenty (20) seconds after lock initialization (single beep with lock motor actuation).