



# SmartHandle AX

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## Manual

29.07.2019

**Simons  Voss**  
technologies

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## 1 Intended use

Products in the SmartHandle AX range consist of electronic door fittings. Users can engage the SmartHandle AX and open the door onto which it is fitted with an authorised ID medium, such as a transponder.

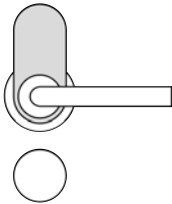
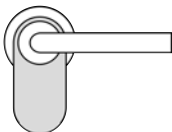
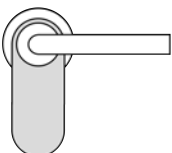
The corresponding authorisations need to be issued using an electronic locking plan.

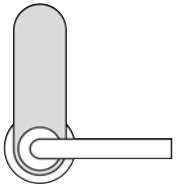
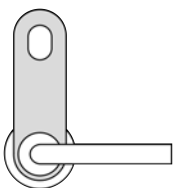
Products in the SmartHandle AX range may only be used for locking and unlocking doors. No other use is permitted.

## 2 General

SmartHandle AX is an electronic door handle which can be used to open and close doors.

Electronic door handles in this range are available in the following models:

Electronic SmartHandle AX	Description
<p data-bbox="113 658 268 689">Variant A0</p> 	<ul style="list-style-type: none"> <li data-bbox="730 546 1323 663">■ Electronic door handle to mount on existing escutcheon holes for stationary installation</li> <li data-bbox="730 685 1323 757">■ Suitable for handle locks with a Euro Profile</li> <li data-bbox="730 779 1323 851">■ Outer side operated with identification medium only</li> <li data-bbox="730 873 1323 945">■ Inner side permanently engaged to open</li> <li data-bbox="730 967 1323 1039">■ Option for a mechanical secondary locking device</li> </ul>
<p data-bbox="113 1193 256 1225">Variant A1</p> 	<ul style="list-style-type: none"> <li data-bbox="730 1081 1323 1198">■ Electronic door handle to mount on existing escutcheon holes for suspended installation</li> <li data-bbox="730 1220 1323 1292">■ Suitable for a lock centres distance between 70 mm and 79 mm</li> <li data-bbox="730 1314 1323 1386">■ Suitable for handle locks with a Euro Profile</li> <li data-bbox="730 1408 1323 1480">■ Outer side operated with identification medium only</li> <li data-bbox="730 1503 1323 1574">■ Inner side permanently engaged to open</li> </ul>
<p data-bbox="113 1729 264 1760">Variant A2</p> 	<ul style="list-style-type: none"> <li data-bbox="730 1617 1323 1733">■ Electronic door handle to mount on existing escutcheon holes for suspended installation</li> <li data-bbox="730 1756 1323 1827">■ Suitable for a lock centres distance between 70 mm and 110 mm</li> <li data-bbox="730 1850 1323 1921">■ Suitable for handle locks with a Euro Profile</li> <li data-bbox="730 1944 1323 2016">■ Outer side operated with identification medium only</li> <li data-bbox="730 2038 1323 2110">■ Inner side permanently engaged to open</li> </ul>

Electronic SmartHandle AX	Description
<p data-bbox="113 443 268 477">Variant E0</p> 	<ul style="list-style-type: none"><li data-bbox="730 327 1323 443">■ Electronic door handle to mount on existing drill holes for Scandinavian Oval</li><li data-bbox="730 465 1323 539">■ Suitable for a lock centres distance of 105 mm</li><li data-bbox="730 562 1323 636">■ Suitable for handle locks with Scandinavian Oval</li><li data-bbox="730 658 1323 732">■ Outer side operated with identification medium only</li><li data-bbox="730 754 1323 828">■ Inner side permanently engaged to open</li></ul>
<p data-bbox="113 1025 256 1059">Variant E1</p> 	<ul style="list-style-type: none"><li data-bbox="730 864 1323 981">■ Electronic door handle to mount on existing drill holes for Scandinavian Oval</li><li data-bbox="730 1003 1323 1077">■ Suitable for a lock centres distance of 105 mm</li><li data-bbox="730 1099 1323 1173">■ Suitable for handle locks with Scandinavian Oval</li><li data-bbox="730 1196 1323 1270">■ Outer side operated with identification medium only</li><li data-bbox="730 1292 1323 1366">■ Inner side permanently engaged to open</li><li data-bbox="730 1388 1323 1462">■ Option for a mechanical secondary locking device</li></ul>

### 3 Safety instructions

- ❑ The batteries used may pose a fire or burn hazard if handled incorrectly. Do not recharge, open, heat or burn these batteries. Do not short-circuit!
- ❑ Access through a door may be blocked due to defective or incorrectly programmed products. SimonsVoss Technologies GmbH is not liable for any consequences, such as blocked access to injured persons or those at risk, physical damage or any other losses.
- ❑ SmartHandle may only be used for its intended purpose: opening and locking doors. No other use is permitted.
- ❑ Only trained specialists may carry out installation and programming or replace the batteries.
- ❑ SimonsVoss Technologies GmbH accepts no liability for any damage caused by incorrect fitting or installation.
- ❑ drilling at own risk. SimonsVoss Technologies GmbH accepts no liability for any damage caused. Observe safety instructions on drill.
- ❑ Do not touch electronics/components; do not allow them to come into contact with oil, paint, moisture, alkali or acids.
- ❑ Only batteries approved by SimonsVoss may be used for battery replacement.
- ❑ Dispose of old or used batteries correctly. Store out of children's reach.
- ❑ Check the polarity of the batteries.
- ❑ Do not touch the contacts on the new batteries with your hands when replacing the old ones. Use cotton gloves free of fat or grease.
- ❑ The electronics must not be subject to mechanical stress or damaged in any way.
- ❑ Only use the SimonsVoss opening tool to open the housing.
- ❑ SmartHandle AX only acts on the mortise lock latch bolt.
- ❑ If the door needs to be secured for insurance coverage requirements, then you need a self-locking panic lock (SVP lock) or a locking cylinder in addition to the SmartHandle AX. Comply with the approvals as per EN 179.
- ❑ SmartHandle must be combined with a self-locking panic lock to guarantee all functions work correctly. Observe the lock manufacturers' Declaration of Conformity as per EN 179.
- ❑ Modifications or further technical developments cannot be excluded and may be implemented without notice.

- ❑ This documentation has been compiled based on the best knowledge available to us. Nevertheless, errors cannot be ruled out. SimonsVoss Technologies GmbH accepts no liability in such a case.
- ❑ Should there be differences in the content of other language versions of this documentation, the German version applies in cases of doubt.



## 4 Installation

You can programme the SmartHandle AX while it is still in the packaging (except MP) and then install it.

You will also find information on installing the SmartHandle AX in the accompanying quick guide.

### 4.1 Installation instructions

- The batteries are already fitted.
- Do not touch electronics/components; do not allow them to come into contact with oil, paint, moisture, alkali or acids.
- Keep away from sources of interference, such as power supply units.
- You must not strike the product while installing the cylinder.
- Attach plan to the door. Do not install while bent or tensioned.
- Use the supplied drilling template.
- If required, fit the supplied dummy cylinder to comply with approval requirements for FH variants.
- Only undo the indicated screws.

### 4.2 Variant A0

#### 4.2.1 Contents of packaging

Quantity	Object
1×	Outer fitting assembly, including:
	4× Battery (CR2450)
	1× Inlay
1×	Outside handle, including:
	1× Grub screw
1×	Inner handle, including:
	1× Grub screw
	1× Pre-installed escutcheon base
1×	Switching plate
1×	Spring element
2×	Escutcheon base for cylinder opening
1×	Escutcheon for inner handle
2×	Escutcheon for cylinder opening
4×	Screw with predetermined breaking points

Quantity	Object
2×	Adapter sleeve 6.4 mm
2×	Adapter sleeve 7.4 mm
2×	Adapter sleeve 8.8 mm
1×	Spindle
1×	Installation tool
1×	Dummy cylinder (FH variant only)
1×	Quick guide
1×	Drilling template

#### 4.2.2 Tools

You require the following tools for installation:

- TX-15 screwdriver
- PH2 screwdriver
- Suitable pliers to trim screws, e.g. Monier pliers

#### 4.2.3 Procedure

Execute programming



#### IMPORTANT

A large volume of data is transmitted during initial programming. You can transfer data significantly faster and reduce the programming time if you use a Smart CD.MP.

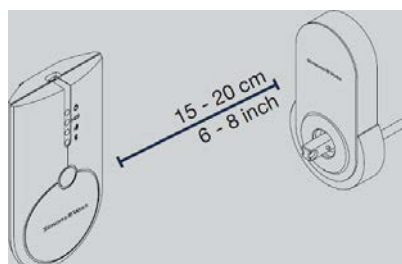


Fig. 1: Programming active (SmartCD.G2)

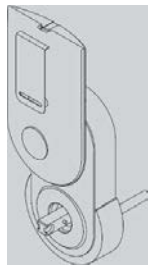


Fig. 2: Programming passive (SmartCD.MP)

- ✓ Locking device added in LSM software.
  - ✓ LSM software launched.
  - ✓ Programming device connected.
1. Position the programming device.
  2. Programme the SmartHandle AX (see , quick guide or LSM manual for details).
- ↳ SmartHandle AX is programmed.

#### Trim screws

Screw/spindle	Length
2× L1	T - 8 mm (± 3 mm)
2× L2	T + 8 mm (± 3 mm)
Spindle	T + 37 mm (± 3 mm)

1. Measure the thickness of the door (T).
  2. Calculate the screw lengths.
  3. Select suitable predetermined breaking points which are no more than 3 mm longer than the calculated length.
  4. Separate the predetermined breaking points with the pliers.
- ↳ Screws are trimmed.



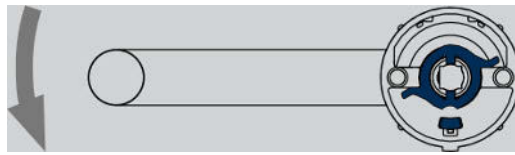
#### IMPORTANT

##### X variant

If you have ordered the X version for very thick doors, your supply package will include an extra-long spindle bar and threaded rods in addition to extension sleeves. The indicated length in this case refers to the extension with a threaded rod. Use a saw to trim the screws and spindle bar.

#### Prepare inside handle (DIN R)

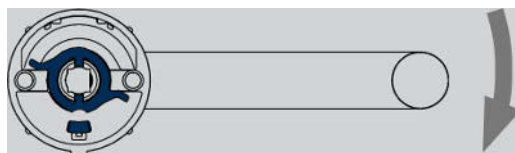
Installation is different for each opening side (DIN R or DIN L).



1. Insert the switching plate as shown.
  2. Position the spring sub-assembly at an angle to the escutcheon base until it touches the switching plate.
  3. Draw the spring sub-assembly back, so that the spring is compressed.
  4. Slide the spring sub-assembly pawls into the escutcheon base.
  5. Press the rear clip into the designated pawl.
- ↳ Spring contact is inserted.

### Prepare inside handle (DIN L)

Installation is different for each opening side (DIN R or DIN L).



1. Insert the switching plate as shown.
  2. Position the spring sub-assembly at an angle to the escutcheon base until it touches the switching plate.
  3. Draw the spring sub-assembly back, so that the spring is compressed.
  4. Slide the spring sub-assembly pawls into the escutcheon base.
  5. Press the rear clip into the designated pawl.
- ↳ Spring contact is inserted.

### Insert spindle



#### IMPORTANT

If you use a 7 mm spindle, attach the adapter shoe to the spindle before fitting the spindle.

- Insert the spindle into the outer sub-assembly until the pin locks into the spindle.
- ↳ Spindle is inserted.

### Fit sub-assembly

1. Push the sub-assembly with the spindle into the door from the outer side.

2. Position the escutcheon base for the cylinder opening on the other side of the door.
3. Fasten the escutcheon base onto the sub-assembly with the L2 screws.

**IMPORTANT**

If you use a 7 mm spindle, place the adapter sleeve on the free side of the spindle.

4. Place the inner side handle on the spindle.
5. Fasten the handle onto the sub-assembly with the L1 screws.

**IMPORTANT**

Press the handle downwards if there is not enough room.

**IMPORTANT****Fit dummy cylinder (FH only)**

Push the dummy cylinder into the mortise lock through the fitted escutcheon base and fasten the dummy cylinder with a suitable screw.

6. Fasten the grub screw into the handle to affix it.
7. Slide the escutcheon along the handle and press the escutcheon onto the escutcheon base until it locks into position.
8. Press the escutcheon onto the escutcheon base on the cylinder opening until it locks into place.
9. Press the escutcheon onto the escutcheon base on the cylinder opening on the other side until it locks into place.

↳ The sub-assembly is mounted.

**Position outer handle**

1. Push the outer handle into the sub-assembly until the pin locks into the spindle.
2. Fasten the grub screw into the handle to affix it.

↳ SmartHandle AX fitted.

### 4.3 Variant A1

#### 4.3.1 Contents of packaging

Quantity	Object
1×	Outer fitting assembly, including:
	4× Battery (CR2450)
	1× Inlay
1×	Outside handle, including:
	1× Grub screw
1×	Inner handle, including:
	1× Grub screw
	1× Pre-installed escutcheon base
1×	Switching plate
1×	Spring element
1×	Escutcheon base for cylinder opening
1×	Escutcheon for inner handle
1×	Escutcheon for cylinder opening
4×	Screw with predetermined breaking points
1×	Spindle
1×	Installation tool
1×	Dummy cylinder (FH variant only)
1×	Quick guide
1×	Drilling template

#### 4.3.2 Tools

You require the following tools for installation:

- TX-15 screwdriver
- PH2 screwdriver
- Suitable pliers to trim screws, e.g. Monier pliers

#### 4.3.3 Procedure

Execute programming



**IMPORTANT**

A large volume of data is transmitted during initial programming. You can transfer data significantly faster and reduce the programming time if you use a Smart CD.MP.

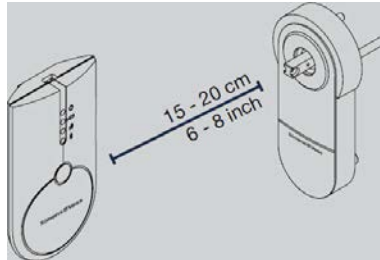


Fig. 3: Programming active (SmartCD.G2)

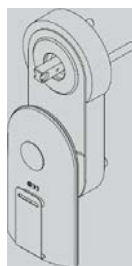


Fig. 4: Programming passive (SmartCD.MP)

- ✓ Locking device added in LSM software.
  - ✓ LSM software launched.
  - ✓ Programming device connected.
1. Position the programming device.
  2. Programme the SmartHandle AX (see , quick guide or LSM manual for details).
- ↳ SmartHandle AX is programmed.

### Trim screws

Screw/spindle	Length
2× L1	T - 8 mm (± 3 mm)
2× L2	T + 8 mm (± 3 mm)
Spindle	T + 37 mm (± 4 mm)

1. Measure the thickness of the door (T).
  2. Calculate the screw lengths.
  3. Select suitable predetermined breaking points which are no more than 3 mm longer than the calculated length.
  4. Separate the predetermined breaking points with the pliers.
- ↳ Screws are trimmed.

**IMPORTANT****X variant**

If you have ordered the X version for very thick doors, your supply package will include an extra-long spindle bar and threaded rods in addition to extension sleeves. The indicated length in this case refers to the extension with a threaded rod. Use a saw to trim the screws and spindle bar.

**Prepare inside handle (DIN R)**

Installation is different for each opening side (DIN R or DIN L).



1. Insert the switching plate as shown.
  2. Position the spring sub-assembly at an angle to the escutcheon base until it touches the switching plate.
  3. Draw the spring sub-assembly back, so that the spring is compressed.
  4. Slide the spring sub-assembly pawls into the escutcheon base.
  5. Press the rear clip into the designated pawl.
- ↳ Spring contact is inserted.

**Prepare inside handle (DIN L)**

Installation is different for each opening side (DIN R or DIN L).



1. Insert the switching plate as shown.
  2. Position the spring sub-assembly at an angle to the escutcheon base until it touches the switching plate.
  3. Draw the spring sub-assembly back, so that the spring is compressed.
  4. Slide the spring sub-assembly pawls into the escutcheon base.
  5. Press the rear clip into the designated pawl.
- ↳ Spring contact is inserted.



## Insert spindle



### IMPORTANT

If you use a 7 mm spindle, attach the adapter shoe to the spindle before fitting the spindle.

- Insert the spindle into the outer sub-assembly until the pin locks into the spindle.
- ↳ Spindle is inserted.

### Fit sub-assembly

1. Push the sub-assembly with the spindle into the door from the outer side.
2. Position the escutcheon base for the cylinder opening on the other side of the door.
3. Fasten the escutcheon base onto the sub-assembly with the L2 screws.



### IMPORTANT

If you use a 7 mm spindle, place the adapter sleeve on the free side of the spindle.

4. Place the inner side handle on the spindle.
5. Fasten the handle onto the sub-assembly with the L1 screws.



### IMPORTANT

Press the handle downwards if there is not enough room.



### IMPORTANT

#### Fit dummy cylinder (FH only)

Push the dummy cylinder into the mortise lock through the fitted escutcheon base and fasten the dummy cylinder with a suitable screw.

6. Fasten the grub screw into the handle to affix it.
  7. Slide the escutcheon along the handle and press the escutcheon onto the escutcheon base until it locks into position.
  8. Press the escutcheon onto the escutcheon base on the cylinder opening until it locks into place.
- ↳ The sub-assembly is mounted.

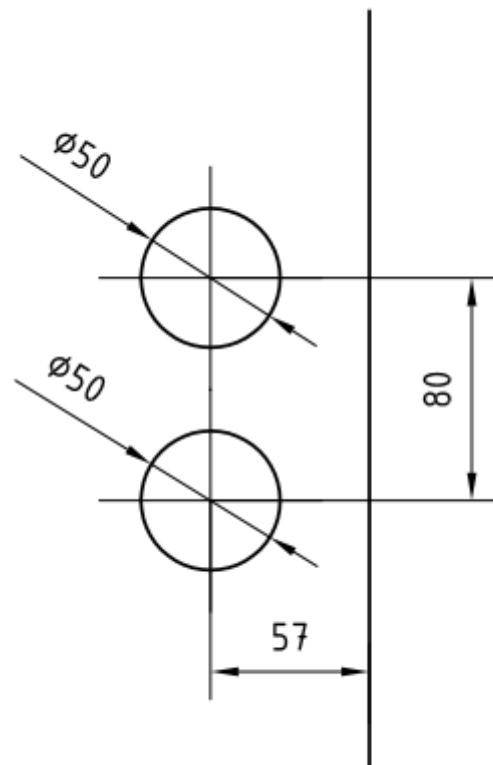
### Position outer handle

1. Push the outer handle into the sub-assembly until the pin locks into the spindle.
  2. Fasten the grub screw into the handle to affix it.
- ↳ SmartHandle AX fitted.

#### 4.3.4 Glass door fitting

You can also use an A1 SmartHandle AX design with an optional lock case on glass doors.

The glass door must feature the following holes for SimonsVoss glass door fittings (dimensions in mm):



## 4.4 Variant A2

### 4.4.1 Contents of packaging

Quantity	Object
1×	Outer fitting assembly, including:
	4× Battery (CR2450)
	1× Inlay
1×	Outside handle, including:
	1× Grub screw

Quantity	Object
1×	Inner handle, including:
	1× Grub screw
	1× Pre-installed escutcheon base
1×	Switching plate
1×	Spring element
1×	Escutcheon base for cylinder opening
1×	Escutcheon for inner handle
1×	Escutcheon for cylinder opening
4×	Screw with predetermined breaking points
1×	Spindle
1×	Installation tool
1×	Dummy cylinder (FH variant only)
1×	Quick guide
1×	Drilling template

#### 4.4.2 Tools

You require the following tools for installation:

- TX-15 screwdriver
- PH2 screwdriver
- Suitable pliers to trim screws, e.g. Monier pliers

#### 4.4.3 Procedure

##### Execute programming



#### IMPORTANT

A large volume of data is transmitted during initial programming. You can transfer data significantly faster and reduce the programming time if you use a Smart CD.MP.

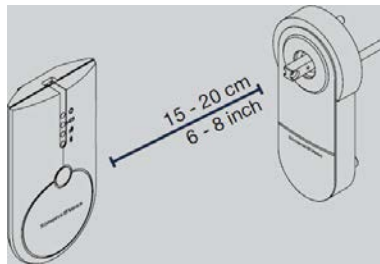


Fig. 5: Programming active (SmartCD.G2)

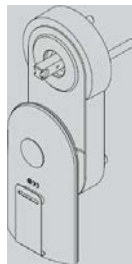


Fig. 6: Programming passive (SmartCD.MP)

- ✓ Locking device added in LSM software.
- ✓ LSM software launched.
- ✓ Programming device connected.

1. Position the programming device.
  2. Programme the SmartHandle AX (see , quick guide or LSM manual for details).
- ↳ SmartHandle AX is programmed.

### Trim screws

Screw/spindle	Length
2× L1	T - 8 mm (± 3 mm)
2× L2	T + 8 mm (± 3 mm)
Spindle	T + 37 mm (± 4 mm)

1. Measure the thickness of the door (T).
  2. Calculate the screw lengths.
  3. Select suitable predetermined breaking points which are no more than 3 mm longer than the calculated length.
  4. Separate the predetermined breaking points with the pliers.
- ↳ Screws are trimmed.



## IMPORTANT

### X variant

If you have ordered the X version for very thick doors, your supply package will include an extra-long spindle bar and threaded rods in addition to extension sleeves. The indicated length in this case refers to the extension with a threaded rod. Use a saw to trim the screws and spindle bar.

### Prepare inside handle (DIN R)

Installation is different for each opening side (DIN R or DIN L).



1. Insert the switching plate as shown.
  2. Position the spring sub-assembly at an angle to the escutcheon base until it touches the switching plate.
  3. Draw the spring sub-assembly back, so that the spring is compressed.
  4. Slide the spring sub-assembly pawls into the escutcheon base.
  5. Press the rear clip into the designated pawl.
- ↳ Spring contact is inserted.

### Prepare inside handle (DIN L)

Installation is different for each opening side (DIN R or DIN L).



1. Insert the switching plate as shown.
  2. Position the spring sub-assembly at an angle to the escutcheon base until it touches the switching plate.
  3. Draw the spring sub-assembly back, so that the spring is compressed.
  4. Slide the spring sub-assembly pawls into the escutcheon base.
  5. Press the rear clip into the designated pawl.
- ↳ Spring contact is inserted.

### Insert spindle



#### IMPORTANT

If you use a 7 mm spindle, attach the adapter shoe to the spindle before fitting the spindle.

- Insert the spindle into the outer sub-assembly until the pin locks into the spindle.
- ↳ Spindle is inserted.

### Fit sub-assembly

1. Push the sub-assembly with the spindle into the door from the outer side.
2. Position the escutcheon base for the cylinder opening on the other side of the door.
3. Fasten the escutcheon base onto the sub-assembly with the L2 screws.



#### IMPORTANT

If you use a 7 mm spindle, place the adapter sleeve on the free side of the spindle.

4. Place the inner side handle on the spindle.
5. Fasten the handle onto the sub-assembly with the L1 screws.



#### IMPORTANT

Press the handle downwards if there is not enough room.



#### IMPORTANT

### Fit dummy cylinder (FH only)

Push the dummy cylinder into the mortise lock through the fitted escutcheon base and fasten the dummy cylinder with a suitable screw.

6. Fasten the grub screw into the handle to affix it.
  7. Slide the escutcheon along the handle and press the escutcheon onto the escutcheon base until it locks into position.
  8. Press the escutcheon onto the escutcheon base on the cylinder opening until it locks into place.
- ↳ The sub-assembly is mounted.

**Position outer handle**

1. Push the outer handle into the sub-assembly until the pin locks into the spindle.
  2. Fasten the grub screw into the handle to affix it.
- ↳ SmartHandle AX fitted.

**4.5 Variants E0 AND E1****4.5.1 Contents of packaging**

Quantity	Object
1×	Outer fitting assembly, including:
	4× Battery (CR2450)
	1× Inlay
	1× Bearing plate
	2× PH2 screws
	1× MO conceal assembly (not for MO)
1×	2× Removable bolts
	Outside handle, including:
1×	1× Grub screw
1×	Inner handle, including:
	1× Grub screw
1×	Pre-installed escutcheon base
1×	Switching plate
1×	Spring element
1×	Escutcheon base for cylinder opening
1×	Escutcheon for inner handle
1×	Escutcheon for cylinder opening
4×	Screw with predetermined breaking points
1×	Spindle
1×	Installation tool
1×	Quick guide
1×	Drilling template

## 4.5.2

## 4.5.3 Procedure

## Execute programming

**IMPORTANT**

A large volume of data is transmitted during initial programming. You can transfer data significantly faster and reduce the programming time if you use a Smart CD.MP.

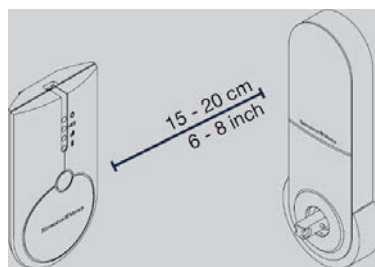


Fig. 7: Programming active (SmartCD.G2)



Fig. 8: Programming passive (SmartCD.MP)

- ✓ Locking device added in LSM software.
- ✓ LSM software launched.
- ✓ Programming device connected.

1. Position the programming device.
  2. Programme the SmartHandle AX (see , quick guide or LSM manual for details).
- ↳ SmartHandle AX is programmed.

**Trim screws**

Screw/spindle	Length
2× L1	T + 10 mm (± 3 mm)
2× L2	T + 3 mm (± 3 mm)
Spindle	T + 37 mm (± 4 mm)

1. Measure the thickness of the door (T).



2. Calculate the screw lengths.
  3. Select suitable predetermined breaking points which are no more than 3 mm longer than the calculated length.
  4. Separate the predetermined breaking points with the pliers.
- ↳ Screws are trimmed.



### IMPORTANT

#### X variant

If you have ordered the X version for very thick doors, your supply package will include an extra-long spindle bar and threaded rods in addition to extension sleeves. The indicated length in this case refers to the extension with a threaded rod. Use a saw to trim the screws and spindle bar.

#### Prepare inside handle (DIN R)

Installation is different for each opening side (DIN R or DIN L).



1. Insert the switching plate as shown.
  2. Position the spring sub-assembly at an angle to the escutcheon base until it touches the switching plate.
  3. Draw the spring sub-assembly back, so that the spring is compressed.
  4. Slide the spring sub-assembly pawls into the escutcheon base.
  5. Press the rear clip into the designated pawl.
- ↳ Spring contact is inserted.

#### Prepare inside handle (DIN L)

Installation is different for each opening side (DIN R or DIN L).



1. Insert the switching plate as shown.
2. Position the spring sub-assembly at an angle to the escutcheon base until it touches the switching plate.
3. Draw the spring sub-assembly back, so that the spring is compressed.
4. Slide the spring sub-assembly pawls into the escutcheon base.

5. Press the rear clip into the designated pawl.

↳ Spring contact is inserted.

#### Reposition bolts (for DIN R only)

1. Undo the indicated screws.

2. Remove the cover plate.

3. Unscrew the stud bolts.

4. Fasten the stud bolts as indicated.

5. Insert the cover plate again.

6. Fasten the indicated screws again.

↳ Sub-assembly is designed for DIN R.

#### Insert spindle



#### IMPORTANT

If you use a 7 mm spindle, attach the adapter shoe to the spindle before fitting the spindle.

■ Insert the spindle into the outer sub-assembly until the pin locks into the spindle.

↳ Spindle is inserted.

#### Fit sub-assembly

1. Push the sub-assembly with the spindle into the door from the outer side.

2. Position the escutcheon base for the cylinder opening on the other side of the door.

3. Fasten the escutcheon base with the L1 screws (MO: fasten the complete escutcheon base with the L1 screws).



#### IMPORTANT

If you use a 7 mm spindle, place the adapter sleeve on the free side of the spindle.

4. Fasten the handle onto the sub-assembly with the L2 screws.



#### IMPORTANT

Press the handle downwards if there is not enough room.

5. Press the escutcheon onto the escutcheon base on the cylinder opening until it locks into place.
  6. Fasten the grub screw into the handle to affix it.
  7. Slide the escutcheon along the handle and press the escutcheon onto the escutcheon base until it locks into position.
- ↳ The sub-assembly is mounted.

### **Position outer handle**

1. Push the outer handle into the sub-assembly until the pin locks into the spindle.
  2. Fasten the grub screw into the handle to affix it.
- ↳ SmartHandle AX fitted.

## 5 Programming

- ✓ LSM software version 3.4 SP1 or higher installed.
  - ✓ LSM open.
  - ✓ SmartCD.MP or SmartCD.G2 connected (recommended: SmartCD.MP).
1. Select the locking system that you require. Use the **...** button to open the locking system properties and use the **▶** and **◀** buttons to select the required lock system.
  2. Click on the **🔒** button to add a new locking device.
    - ↳ The "New lock" window will open.
  3. Open the Area drop-down menu.
  4. Select the area.
  5. Open the Lock type drop-down menu.
  6. Select the "AX SmartHandle" item.
  7. Complete the rest of the form.
  8. Click on the **Save & next** button.
    - ↳ Locking device has been added.
  9. Click on the **Exit** button.
    - ↳ Window closes.
  10. Highlight the entry on the SmartHandle AX in the matrix.
  11. Align the Smart CD.MP with the SmartHandle AX or place the SmartCD.G2 about ten centimetres away from the SmartHandle.AX.



### IMPORTANT

A large volume of data is transmitted during initial programming. You can transfer data significantly faster and reduce the programming time if you use a Smart CD.MP.

12. Right-click on the SmartHandle AX entry in the matrix to open the context menu.
13. Select the **Programming** item.
14. Open the Type drop-down menu.
15. Select the "SmartCD Mifare" entry or "SmartCD aktiv" entry.
16. Click on the **Programming** button.
  - ↳ Programming launches.
17. Wait for programming to complete.
  - ↳ SmartHandle AX is programmed.

## 6 Configuration

### 6.1 Pulse length

SmartHandle is pre-set to engage for about 5 seconds. The time that it engages can be freely configured between 1 and 25 seconds for each lock in the software. This does not result in a shorter battery life.

### 6.2 Access control

Identification media bookings are logged if access control is activated. The following information is stored in SmartHandle.

- Date
- Time
- Identification medium ID

Each SmartHandle AX can store up to 3,000 bookings.



#### IMPORTANT

These settings are only available in the .ZK version.

- ✓ LSM open.
- 1. Double-click on the SmartHandle AX entry in the matrix to open the settings.
- 2. Change to the [Configuration/Data] tab.
- 3. Enable the  Audit trail checkbox.
- 4. Click on the **Apply** button.
- 5. Click on the **Exit** button.
- ↳ Access control is enabled.

Only authorised transponder operations are logged by default. However, you can also log non-authorised bookings (see *Logging unauthorised attempted access events* [▶ 30]). You will find information on how to read access lists in the LSM manual.

### 6.3 Time zone control

You can load a time zone plan. Identification media will then be granted or denied access based on their time zone group. Up to 100+1 time groups are possible.

You can also implement automatic time-controlled changeover using a time zone plan (see *Time switch-over function* [▶ 31]).

**IMPORTANT**

These settings are only available in the .ZK version.

- ✓ LSM open.
  - ✓ Add time zone plan (see LSM manual).
1. Double-click on the SmartHandle AX entry in the matrix to open the settings.
  2. Change to the [Door] tab.
  3. Open the Time zone drop-down menu.
  4. Select your time zone.
  5. Click on the **Apply** button.
  6. Click on the **Exit** button.
- ↳ Time zone is selected.

#### 6.4 Logging unauthorised attempted access events

Only authorised accesses are logged in storage mode. There is an option to log unauthorised access attempts too.

**IMPORTANT**

These settings are only available in the .ZK version.

- ✓ LSM open.
1. Double-click on the SmartHandle AX entry in the matrix to open the settings.
  2. Change to the [Configuration/Data] tab.
  3. Enable the  Log unauthorised attempts checkbox.
  4. Click on the **Apply** button.
  5. Click on the **Exit** button.
  6. Execute programming (see ).
- ↳ Unauthorised access attempts are now also logged.

#### 6.5 Flip flop

Pulse mode (default setting) is switched off and the pulse duration is no longer in effect. When flip flop mode is activated, the SmartHandle changes its status from engaged to disengaged or vice versa each time it is

activated using a transponder/SmartCard. This mode is suitable for situations such as when a door needs to be used freely without a transponder/SmartCard to allow visitors to enter, for instance

## 6.6 Close range mode

A reduced reader range is required in some situations. The near-field mode reduces the reader range for transponders. This diminishes the impact of possible interferences and prevents the transponder from overriding.

- ✓ LSM open.
- 1. Double-click on the SmartHandle AX entry in the matrix to open the settings.
- 2. Change to the [Configuration/Data] tab.
- 3. Enable the  Close-up range mode checkbox.
- 4. Click on the **Apply** button.
- 5. Click on the **Exit** button.
- 6. Execute programming (see ).
- ↳ Near-field mode is activated.

## 6.7 Time switch-over function

The fifth group in the time zone plan is relevant for time change-over.



### IMPORTANT

These settings are only available in the .ZK version.

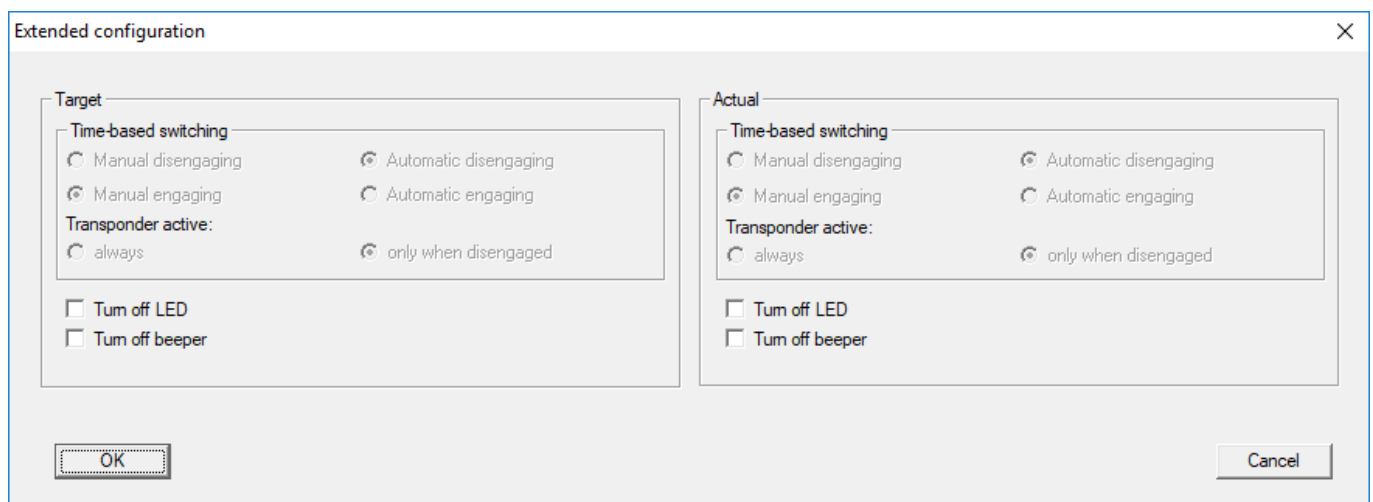
### Assignment of a time zone plan

- ✓ LSM open.
- ✓ Add time zone plan (see LSM manual).
- 1. Double-click on the SmartHandle AX entry in the matrix to open the settings.
- 2. Change to the [Door] tab.
- 3. Open the Time zone drop-down menu.
- 4. Select your time zone.
- 5. Click on the **Apply** button.
- 6. Click on the **Exit** button.
  - ↳ Time zone is selected.

### Activating time zone control and time change-over

Whereas time zone control itself can only influence identification media authorisations, the time change-over also activates time-dependent switching of the relay in the controller. Both need to be enabled.

- ✓ LSM open.
  - ✓ Time zone plan assigned.
1. Double-click on the SmartHandle AX entry in the matrix to open the settings.
  2. Change to the [Configuration/Data] tab.
  3. Enable the  Time zone management checkbox.
  4. Enable the  Time switching checkbox.
  5. Click on the **Extended configuration** button.
    - ↳ The "Extended configuration" window will open.



6. Set the options for automatic and manual locking and unlocking in the "Time-based switching" section as you require (see *Time-controlled changeover* [▶ 33]).
7. Click on the **OK** button.
  - ↳ Window closes.
8. Click on the **Apply** button.
9. Click on the **Exit** button.
  - ↳ Time zone control and time change-over are activated.

### Editing the time zone plan

See LSM manual to edit the time zone plan.

### Also see

- ➔ *Time zone control* [▶ 29]



### 6.8 Ignore activation or expiry date

Identification media can be given a validity date. This validity date can be ignored if identification media need to be used regardless.

- ✓ LSM open.
- 1. Double-click on the SmartHandle AX entry in the matrix to open the settings.
- 2. Change to the [Configuration/Data] tab.
- 3. Enable the  Ignore activation or expiry date checkbox.
- 4. Click on the **Apply** button.
- 5. Click on the **OK** button.
- 6. Execute programming (see ).
- ↳ Activation or expiry date is ignored.

### 6.9 No audible programming feedback signals

You should check this field if you do not want audible programming feedback signals to be emitted while you are programming a SmartHandle, for example.

This function is particularly advantageous when programming via the WaveNet (network) as the audible signal from SmartHandle cannot be heard as a general rule due to distance.

### 6.10 Card interface

You need to activate the  Card interface box in the locking device properties when using a SmartHandle Hybrid or MP.

### 6.11 Extended configuration

#### 6.11.1 Time-controlled changeover



#### IMPORTANT

These settings are only available in the .ZK version.

Unlock in the authorised time period			
Engage automatically		Engage manually	
always	only when disengaged	always	only when disengaged

Unlock in the authorised time period			
SmartHandle AX: engages to open as soon as authorisation starts in the time zone plan. Behaves in the same way as a flip-flop for the remaining authorised time period.	SmartHandle AX: engages to open as soon as authorisation starts in the time zone plan. No influence by identification media for the rest of the authorised time period.	SmartHandle AX: engages to open as soon as identification medium is activated after authorisation starts in the time zone plan. Behaves in the same way as a flip-flop for the remaining authorised time period.	SmartHandle AX: engages to open as soon as identification medium is activated after authorisation starts in the time zone plan. No influence by identification media for the rest of the authorised time period.
Locking in the non-authorised time period			
Disengage automatically		Disengage manually	
always	only when disengaged	always	only when disengaged
SmartHandle AX: disengages as soon as authorisation ends in the time zone plan. Identification media engage ready to open during non-authorised time period for pre-set pulse duration.	SmartHandle AX: disengages as soon as authorisation ends in the time zone plan. Identification media engage ready to open during non-authorised time period for pre-set pulse duration.	SmartHandle AX: disengages as soon as the identification medium is activated. Identification media engage ready to open during non-authorised time period for pre-set pulse duration.	Not possible

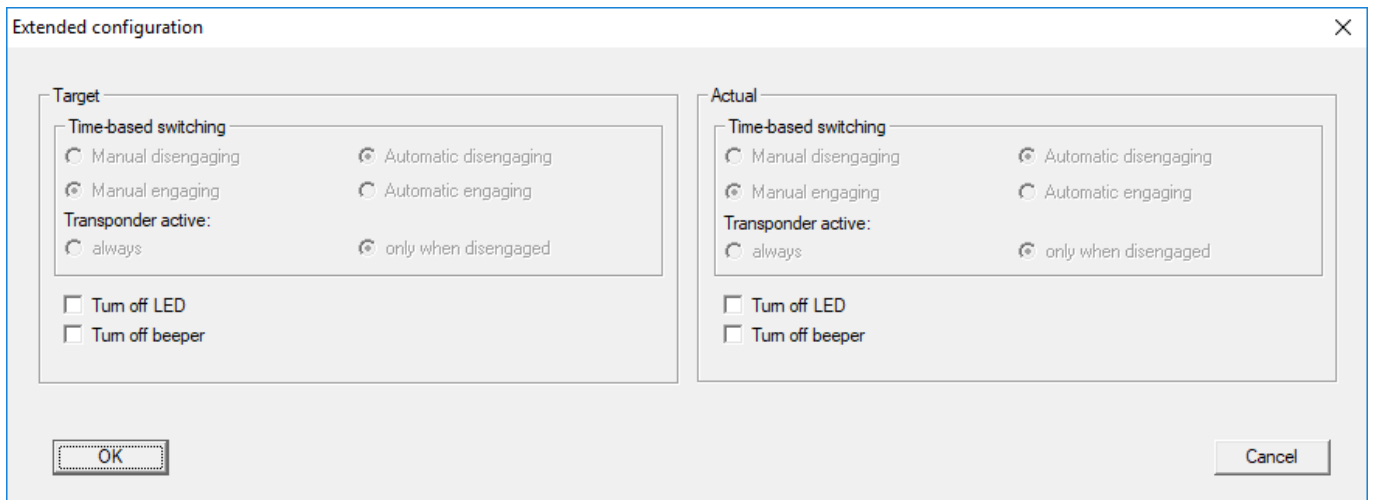
### 6.11.2 Turn off LED/beeper

You can also adjust signal settings as you wish.

#### Open extended configuration

✓ LSM open.

1. Double-click on the SmartHandle AX entry in the matrix to open the settings.
2. Change to the [Configuration/Data] tab.
3. Click on the **Extended configuration** button.
  - ↳ The "Extended configuration" window will open.



### Turn off LED/beeper

- ✓ LSM open.
  - ✓ "Extended configuration" window open.
1. Enable the  Turn off LED checkbox or the  Turn off beeper checkbox.
  2. Click on the **OK** button.
    - ↳ Window closes.
  3. Click on the **Apply** button.
  4. Click on the **Exit** button.
  5. Execute programming (see ).
    - ↳ LED or beeper is switched off.

## 7 Operation

The SmartHandle AX can be operated in different ways, depending on the programming.



### IMPORTANT

#### Gap

The size of the gap affects the wireless connection.

1. If you use a transponder, you must position it between five and thirty centimetres away.
2. If you use a passive medium, place it under the groove on the cover. If there is no groove, position the identification medium on the SimonsVoss inscription.

#### Pulse opening

To use pulse opening, ensure that the  Flip Flop checkbox is disabled.

✓ Identification medium is authorised to use the SmartHandle AX.

1. Position the identification medium.
  2. If you are using a transponder, press it once.
    - ↳ SmartHandle AX will beep and flash green twice.
- ↳ The SmartHandle AX will remain open for the pre-set pulse interval.

#### Flip-flop mode

To use flip-flop mode, ensure that the  Flip Flop checkbox is enabled.

✓ Identification medium is authorised to use the SmartHandle AX.

1. Position the identification medium.
  2. If you are using a transponder, press it once.
    - ↳ When the SmartHandle AX engages to open, it will beep and flash (short-long).
    - ↳ When SmartHandle AX is decoupled, it will beep and flash (long-short).
- ↳ The SmartHandle AX will remain engaged to open or decoupled until it is activated again.

## 8 Status messages

### 8.1 Battery status feedback

OK	Batteries OK. You do not need to do anything.
Low	Batteries low. Change the batteries.
Very low	Batteries very low. Replace the batteries immediately.

### 8.2 Emergency release

### 8.3 Deactivated

If SmartHandle is deactivated via a SimonsVoss Block Lock or the SV network, the programming software automatically checks this box.

### 8.4 Engaged

This box is checked when SmartHandle is engaged for use if a time switch-over or flip-flop mode is programmed.

## 9 Signal

Signal	Meaning
2x short before engaging to open (green)	Identification medium accepted – normal activation
1 x short (red)	Identification medium not authorised
1× short, 1× long (green)	Flip-flop mode: Locking device is now engaged ready to open
1× long, 1× short (green)	Flip-flop mode: Locking device is now disengaged

## 10 Battery warning

You or users are warned that the SmartHandle AX is about to fail due to empty batteries. Replace the batteries in good time (see [Battery replacement \[▶ 40\]](#)). The electronic part with the batteries is on the outside. When the batteries are completely drained, you can still reach the SmartHandle to change the batteries.

### 10.1 Warning level

warning level	Signalling	Meaning
Warning Level 1	8 x short bleep/flash before engagement (red)	Batteries are nearly dead and must be changed. Remaining openings (temperature dependent): min. 10000 or 6 months
Warning Level 2	16 x short bleep/flash before engagement (red)	Batteries are very weak and must be changed immediately. Remaining openings (temperature dependent): min. 1000 or 2 months

## 11 Battery replacement

### 11.1 Instructions on battery replacement

- ❑ Only specialists may replace the batteries.
- ❑ Do not touch electronics/components; do not allow them to come into contact with oil, paint, moisture, alkali or acids.
- ❑ Only use batteries approved by SimonsVoss.
- ❑ The batteries used may pose a fire or burn hazard if handled incorrectly. Do not recharge, open, heat or burn these batteries. Do not short-circuit!
- ❑ Dispose of old or used batteries correctly. Store out of children's reach.
- ❑ Check the polarity of the batteries.
- ❑ The batteries will have discharged to roughly the same level. That is why you must replace all batteries.
- ❑ Do not touch the contacts on the new batteries with your hands when replacing the old ones. Use cotton gloves free of fat or grease.
- ❑ When replacing the batteries, make sure that no pressure is applied to the electronics or that they are not damaged in any other way.

### 11.2 Procedure

The batteries are located at the SmartHandle AX under the cover. You need the SimonsVoss fitting tool to change the batteries.

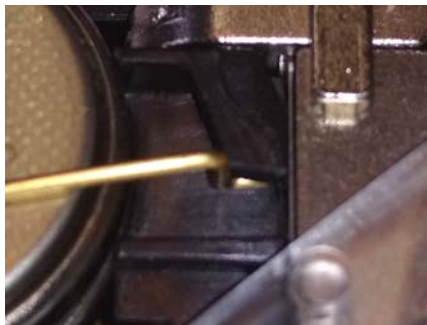
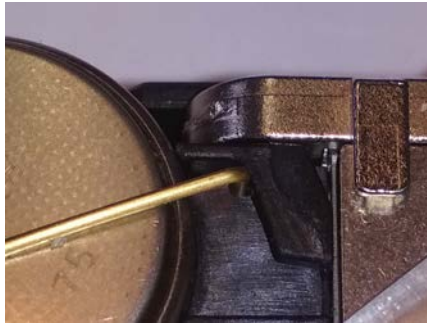
1. Place the SimonsVoss fitting tool in the recess provided for it in the cover. These are found on the side away opposite the electronics.



2. Push the SimonsVoss fitting tool into the recess until the cover springs out.
3. Pull the cover down until it comes free with a click.
4. Remove the cover.



5. Push the end battery clip inwards, until it springs out.



### ATTENTION

#### Loss of the battery clip

The battery clip is stuck. If both ends of the clip are pushed inward together at the same time and released from the holder, the battery clip can fall out.

1. Change first one side then the other.
2. Do not open both sides of the clip at the same time.



6. Remove the batteries.
7. Insert new batteries.
8. Push the end of the battery clip back in again.
9. Push the end of the battery clip down.
10. Push the end of the battery clip into the bracket provided.
11. Repeat with the other side.
12. Push the cover back on the SmartHandle AX.

13. Push the cover firmly in the area of the recesses for the fitting tool again until it engages.
  14. Read off the battery status (see LSM Handbook).
  15. Read off the battery status (Battery card, see TechGuide WO/VCN).
- ↳ Batteries are changed.

## 12 Maintenance, cleaning and disinfection



### IMPORTANT

Digital SmartHandles MUST not come into contact with oil, grease, paint or acids.



### IMPORTANT

SmartHandles can be damaged if you use unsuitable or aggressive cleaning agents or disinfectants.

If you need to clean SmartHandle, use a soft cloth, dampening it if necessary.

If you wish to disinfect SmartHandle, you may only use disinfectant which is specifically designated for use on delicate metal surfaces and composites.

You must always replace empty batteries with new ones approved for use by SimonsVoss. Dispose of old batteries in the proper manner.

## 13 Disassembly

You will also find information on disassembly in the supplied quick guides.

### 13.1 Variant A0

You require the following tools for disassembly:

- TX-15 screwdriver
- Slotted-head screwdriver
- PH-2 screwdriver
- 1.5 mm hex key

1. Dismount electronic cylinders if necessary.
2. Unfasten the grub screws from both handles.
3. Use a slotted-head screwdriver to lever off the escutcheon covers.
4. Remove the escutcheon covers.
5. Pull off the handle from the opposite side to the sub-assembly.
6. Unfasten the sub-assembly attachment screws.
7. Pull out the sub-assembly with the spindle.
  - ↳ SmartHandle AX has been removed from the door.
8. Press the spindle securing pin inwards and pull the spindle out of the sub-assembly.
9. Insert the hex key into the designated hole in the spindle hole.
10. Press the hex key towards the nearest edge (see quick guide for details) and hold.
11. Remove the second handle from the sub-assembly.
  - ↳ SmartHandle AX is dismantled.

### 13.2 Variant A1

You require the following tools for disassembly:

- TX-15 screwdriver
- Slotted-head screwdriver
- PH-2 screwdriver
- 1.5 mm hex key

1. Dismount electronic cylinders if necessary.
2. Unfasten the grub screws from both handles.
3. Use a slotted-head screwdriver to lever off the escutcheon covers.
4. Remove the escutcheon covers.
5. Pull off the handle from the opposite side to the sub-assembly.
6. Unfasten the sub-assembly attachment screws.

7. Pull out the sub-assembly with the spindle.
  - ↳ SmartHandle AX has been removed from the door.
8. Press the spindle securing pin inwards and pull the spindle out of the sub-assembly.
9. Insert the hex key into the designated hole in the spindle hole.
10. Press the hex key towards the nearest edge (see quick guide for details) and hold.
11. Remove the second handle from the sub-assembly.
  - ↳ SmartHandle AX is dismantled.

### 13.3 Variant A2

You require the following tools for disassembly:

- TX-15 screwdriver
- Slotted-head screwdriver
- PH-2 screwdriver
- 1.5 mm hex key

1. Dismount electronic cylinders if necessary.
2. Unfasten the grub screws from both handles.
3. Use a slotted-head screwdriver to lever off the escutcheon covers.
4. Remove the escutcheon covers.
5. Pull off the handle from the opposite side to the sub-assembly.
6. Unfasten the sub-assembly attachment screws.
7. Pull out the sub-assembly with the spindle.
  - ↳ SmartHandle AX has been removed from the door.
8. Press the spindle securing pin inwards and pull the spindle out of the sub-assembly.
9. Insert the hex key into the designated hole in the spindle hole.
10. Press the hex key towards the nearest edge (see quick guide for details) and hold.
11. Remove the second handle from the sub-assembly.
  - ↳ SmartHandle AX is dismantled.

### 13.4 Variants E0 and E1

You require the following tools for disassembly:

- TX-15 screwdriver
- Slotted-head screwdriver
- PH-2 screwdriver
- 1.5 mm hex key

1. Dismount electronic cylinders if necessary.
2. Unfasten the grub screws from both handles.
3. Use a slotted-head screwdriver to lever off the escutcheon covers.
4. Remove the escutcheon covers.
5. Pull off the handle from the opposite side to the sub-assembly.
6. Unfasten the sub-assembly attachment screws.
7. Pull out the sub-assembly with the spindle.
  - ↳ SmartHandle AX has been removed from the door.
8. Press the spindle securing pin inwards and pull the spindle out of the sub-assembly.
9. Insert the hex key into the designated hole in the spindle hole.
10. Press the hex key towards the nearest edge (see quick guide for details) and hold.
11. Remove the second handle from the sub-assembly.
  - ↳ SmartHandle AX is dismounted.

## 14 Technical specifications

Types	■ Euro Profile cylinder
	■ Scandinavian Oval
Read systems	■ Active
	■ Passive
Read ranges	Active 5 cm to 30 cm
	Passive Near field
Dimensions	
Height	A0 120 mm
	A1 140 mm
	A2, E0, E1 174 mm
Width	66 mm
Depth	21 mm
Door thickness	S 38 mm to 60 mm
	M 58 mm to 80 mm
	L 78 mm to 100 mm
	XL 100 mm to 200 mm
Spindle	7 mm to 10 mm
Centres distance	A0 Not relevant
	A1 70 mm to 79 mm
	A2 70 mm to 110 mm
	E0, E1 105 mm
Power supply	
Battery type	4 × CR2450 (3 V)
Battery manufacturer	■ Sony
	■ Varta
	■ Panasonic
Battery life	■ Up to 300,000 operations (active)
	■ Up to 200,000 operations (passive)
	■ Up to 10 years on stand-by without activation
Battery life with LockNode	tba
Ambient conditions	
Temperature range	Operational: -25 °C to +50 °C
	In storage (temporary): -40 °C to +50 °C
	In storage (long-term): 0 °C to +30 °C

Protection rating	IP40	
Feedback		
Signal	<ul style="list-style-type: none"> <li>■ Audible (beeper)</li> <li>■ Visual (two-colour LED)</li> </ul>	
Administration and settings		
Loggable access events	Max. 3000	
Time zone groups	100+1	
Max. transponders per SH AX	Max. 64000	
Max. SmartCards per SH AX	Max. 64,000 (depending on card configuration)	
Engage interval	<ul style="list-style-type: none"> <li>■ Pulse opening: 1 s to 25 s</li> <li>■ Flip-flop</li> </ul>	
Networking capability	LockNode can be retrofitted	
Other information		
Can be upgraded	Upgradeable firmware	
Handle turning angle	48° effective	
Colours	Cover	<ul style="list-style-type: none"> <li>■ Traffic white (RAL 9016)</li> <li>■ Black grey (RAL 7021)</li> </ul>
	Escutcheon	Brushed nickel, coated
	Handle	Stainless steel, brushed

#### Radio emissions

SRD	15.25 kHz - 72.03 kHz	10 dBµA/m (3 m distance)
RFID	13.560006 MHz - 13.560780 MHz	1.04 dBµA/m (3 m distance)
BLE (depending on equipment)	2402 MHz - 2480 MHz	2.5 mW
SRD (WaveNet) (depending on equipment)	868.000 MHz) - 868.600 MHz	<25 mW ERP

There are no geographical restrictions within the EU.



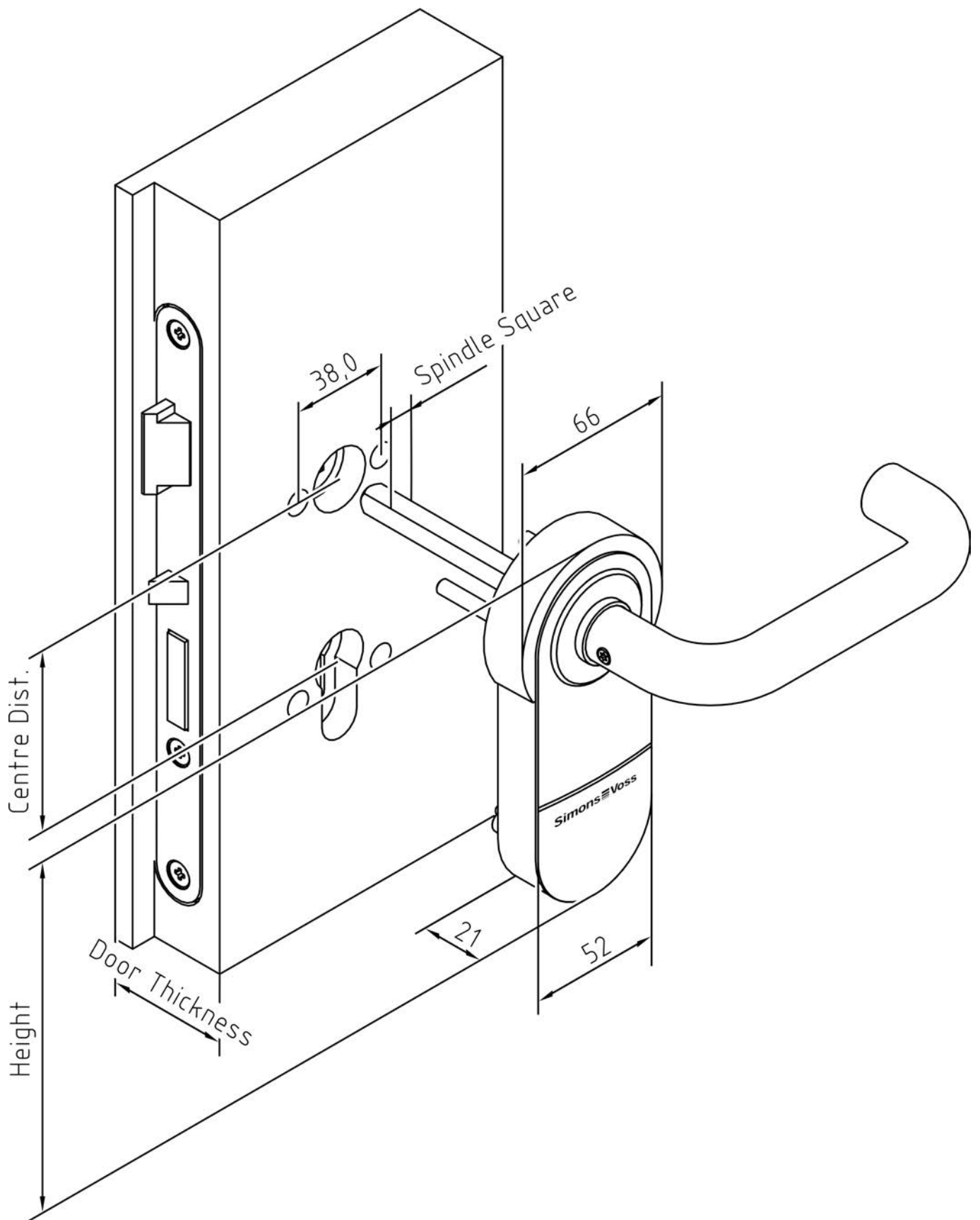


Fig. 9: Size of suspended SmartHandle.AX (A1, A2)



**IMPORTANT**

Height depends on the variant (see table).

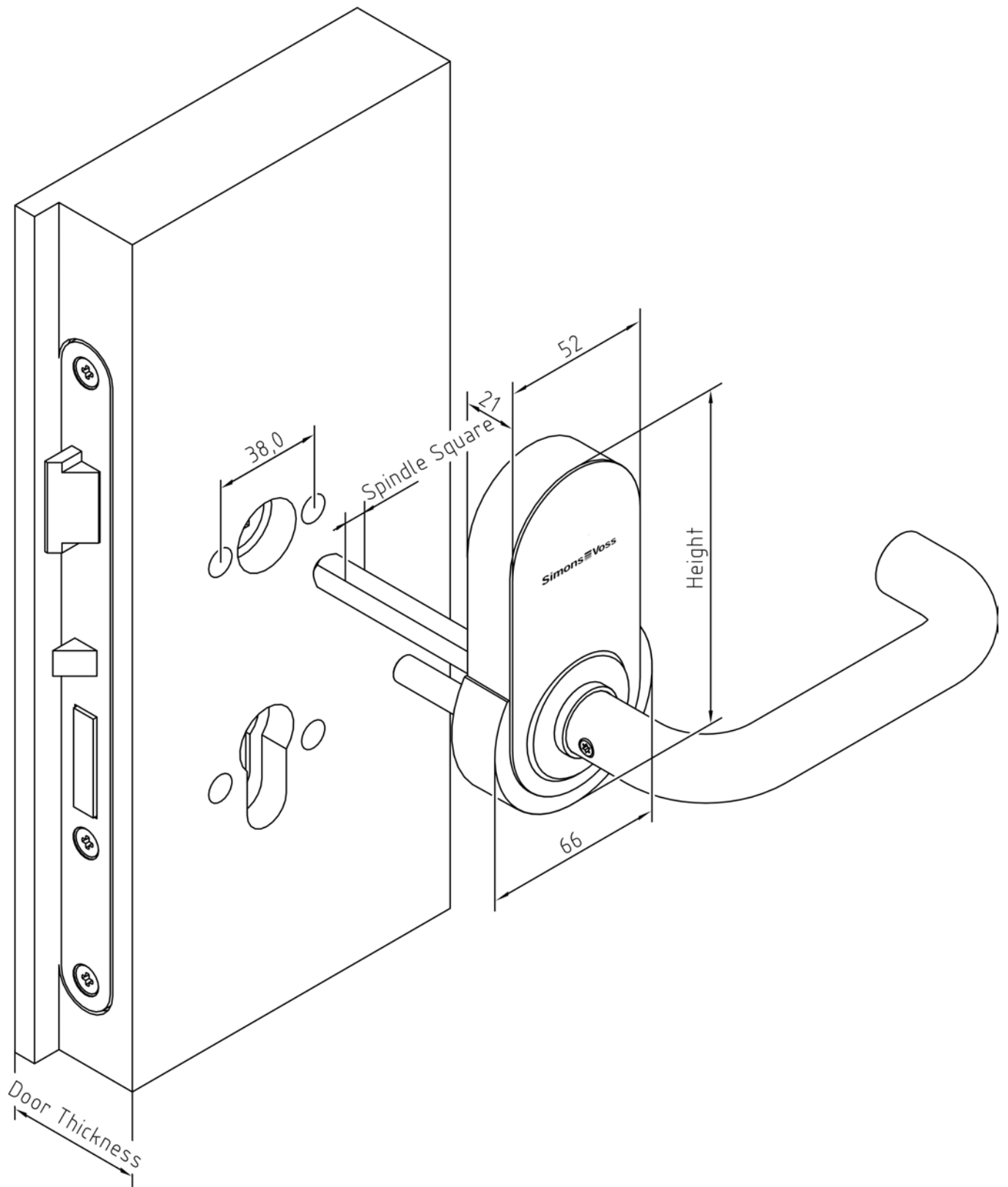


Fig. 10: Size of stationary SmartHandle.AX (A0)

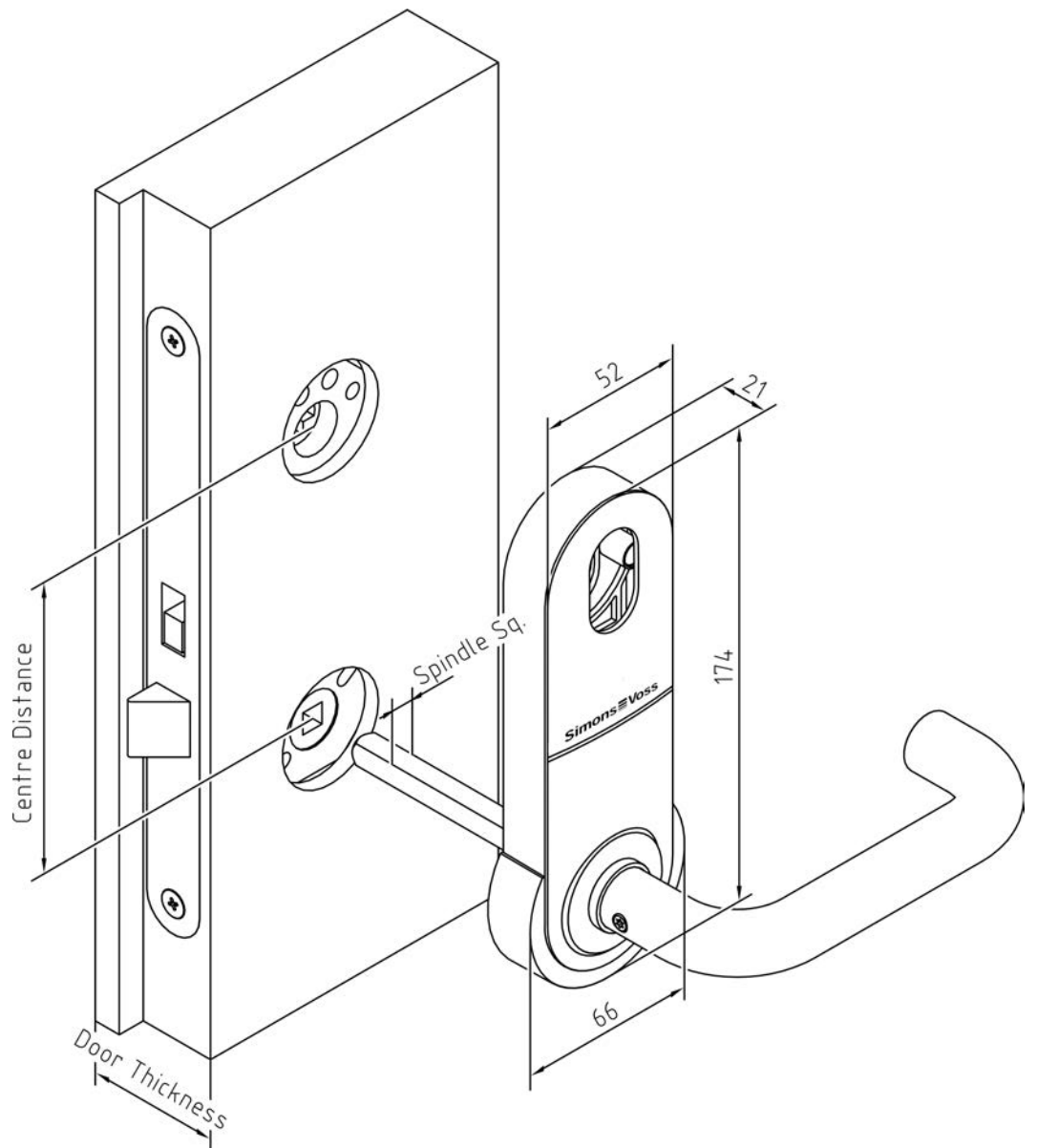


Fig. 11: Size of Scandinavian Oval SmartHandle (E0, E1)

## 15 Declaration of conformity

The company SimonsVoss Technologies GmbH hereby declares that article SmartHandle AX complies with the following guidelines:

- 2014/53/EU "Radio equipment"
- 2014/30/EU "EMC"
- 2011/65/EU "RoHS"
- 2012/19/EU "WEEE"
- and regulation (EG) 1907/2006 "REACH"

The full text of the EU Declaration of conformity is available at the following internet address: <https://www.simons-voss.com/en/certificates.html>.



## 16 Help and other information

### Information material/documents

You will find detailed information on operation and configuration and other documents under Informative material/Documents in the Download section on the SimonsVoss website (<https://www.simons-voss.com/en/downloads/documents.html>).

### Declarations of conformity

You will find declarations of conformity for this product in the Certificate section on the SimonsVoss website (<https://www.simons-voss.com/en/certificates.html>).

### Information on disposal

- Do not dispose the device (SmartHandle AX) in the household waste. Dispose of it at a collection point for electronic waste as per European Directive 2012/19/EU.
- Recycle defective or used batteries in line with European Directive 2006/66/EC.
- Observe local regulations on separate disposal of batteries.
- Take the packaging to an environmentally responsible recycling point.



### Hotline

If you have any questions, the SimonsVoss Service Hotline will be happy to help you on +49 (0)89 99 228 333 (German fixed network; call charges vary depending on the operator).

### Email

You may prefer to send us an email.

[support@simons-voss.com](mailto:support@simons-voss.com)

### FAQs

You will find information and help for SimonsVoss products in the FAQ section on the SimonsVoss website (<https://faq.simons-voss.com/otrs/public.pl>).

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## This is SimonsVoss

SimonsVoss is a technology leader in digital locking systems.

The pioneer in wirelessly controlled, cable-free locking technology delivers system solutions with an extensive product range for SOHOs, SMEs, major companies and public institutions.

SimonsVoss locking systems unite intelligent functions, optimum quality and award-winning German-made design. As an innovative system provider, SimonsVoss attaches great importan-

ce to scalable systems, effective security, reliable components, high-performance software and simple operation.

Our commercial success lies in the courage to innovate, sustainable thinking and action, and heartfelt appreciation of employees and partners. With its headquarters in Unterföhring, near Munich, and its production site in Osterfeld, eastern Germany, the company employs around 300 staff in eight countries.

SimonsVoss is a company in the ALLEGION Group, a globally active network in the security sector. Allegion is represented in around 130 countries worldwide ([www.allegion.com](http://www.allegion.com)).

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