OMEGA FLEX Programming Adaptor

Programming Adaptor (Cylinder)  Programming Adaptor (ILS/SIS)

Programming Adaptor and Firmware-updates

English
Version VA
BRO2268
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1 About this manual

Always use the latest version of this manual. The version number of this manual is shown on the cover page. You can get the latest version free of cost under www.ces.eu.

1.1 Design features

- Refers to other documents
- Marks additional information and tips
- Marks warnings in step-by-step instructions and specially important information

1.2 Target group of this manual

This manual is intended for administrators of CEStronics locking systems. The necessary expertise regarding the intended use of the product are presumed for the use of this manual.

The necessary product training is conducted by your CES partner. In case it has not yet been done, please contact your CES partner to get the product training.

1.3 Manufacturer and Service

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For service assistance please contact your CES partner.

1.4 Notes on trademark protection

MIFARE, MIFARE classic, MIFARE Ultralight and MIFARE DESFire are registered trademarks of NXP B.V. and are used under license.
2 For your safety

2.1 Declaration of Conformity
The Declaration of Conformity is available online via [www.ces.eu](http://www.ces.eu)

2.2 Intended use
The Programming Adaptor is used to program electronic cylinders and handle sets. It is exclusively intended this purpose and may only be used for this. All other uses are considered as improper use and may lead to material damages.

The C.Ed. Schulte GmbH Zylinderschlossfabrik assumes no liability for damages caused by improper use.

2.3 Basic safety instructions
The Programming Adaptor has been built with state-of-the-art technology and established safety regulations. Nevertheless, its use may constitute function-related hazards for the user or third parties or impairments of the Programming Adaptor and other material assets.

Observe all warnings and notices in this manual while using the Programming Adaptor.

2.3.1 Danger of personal injury

Danger of explosion
- Live parts of the Programming Adaptor may cause explosion. Do not use the Programming Adaptor in potentially explosive areas.

2.3.2 Danger of damage to material assets

Operation
- Protect the electronic components of the Programming Adaptor against water and other fluids.

Maintenance
- Always have repairs performed by qualified personnel.
- Use only the accessories and spare parts recommended by CES.
- Do not use any lubricant or oils for the Programming Adaptor.
Danger through climatic influences

- Do not use the Programming Adaptor in corrosive atmosphere (chlorine, Ammonia, Lime water)
- Do not use the Programming Adaptor in areas with high dust formation.
- Do not use the handle set near heat sources.

2.4 Notes on dealing with batteries

- Only the batteries specified by CES for electronic cylinders may be used in OMEGA FLEX electronic cylinders (Panasonic CR2 Industrial Lithium 3,0 V 850 mAh).
- Before inserting the batteries, check whether the contacts in the device and on the batteries are clean. Otherwise, clean them. Do not touch the contacts after the cleaning process.
- When inserting the batteries, ensure that the polarity is correct (+/-).
- Never try to recharge the batteries. There is a risk of explosion!
- Do not short circuit the batteries.
- Store batteries in a cool and dry place. Direct heat may damage the batteries. Therefore, do not expose batteries to any strong heat source and do not dispose of the batteries into fire.
- If you do not use devices for longer time, take out the batteries.
- Remove the leaking batteries immediately from the device. Clean the contacts before inserting new batteries. There is danger of acid burns from the battery acid.
- Remove the empty batteries from the device.
- Recycle the empty batteries.

2.5 Manufacturer's warranty

The following damages are not covered by the manufacturer warranty:

- Damages to the exterior mechanical parts as well as subsequent damages arising from normal wear and tear.
- Damages caused by external events or influences
- Damages caused by deficient installation
- Damages caused by deficient maintenance
- Damages caused by false operation
- Damages caused by overvoltage
- Damages caused by fire, water or smoke
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VA

BRO2268-2
3 Programming Adaptor

3.1 About Programming Adaptor

A Programming Adaptor is a programming device with which

- Firmware updates can be transmitted
- Replacement parts can be coupled with existing locking devices ("Pairing")

There are two types of Programming Adaptors:

- **Programming Adaptor (Electronic cylinder)**
  For the programming of electronic cylinders

- **Programming Adaptor (ILS/SIS)**
  For the programming of the electronic handle sets Long shield ILS and Smart shield SIS

3.2 Scope of delivery Programming Adaptor (Cylinder)

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</tr>
<tr>
<td>2</td>
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3.3 Scope of delivery Programming Adaptor (ILS/SIS)

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4 Executing firmware updates for Cylinder

**Required programming device:** Programming Adaptor (Cylinder)

If you are updating a dual cylinder, you must update both knobs of the cylinder.

1. Connect the Programming Adaptor to your PC.

   *If you are connecting the programming adaptor for the first time to the PC, the driver will be installed automatically now. You can then use the Programming Adaptor.*

2. Dismantle the electronic knob of the cylinder which you want to update.

**Dismantling the electronic knob**

1. Loosen the **Knob Sleeve** with the **CES-Spanner** and by hand.

   *If if the knob-sleeve cannot be loosened by hand, you may use CES Knob-Sleeve wrench to loosen it. You can acquire the CES Knob-sleeve wrench through your CES partner.*

   *Use the CES knob-sleeve wrench only on the stainless steel sleeve, never on the light ring.*

   *Rotate the CES Knob-sleeve wrench **against the locking directing** while you place it on or pull it off so as not to scratch the knob-sleeve.*
2. Remove the KNOB SLEEVE.

3. Remove the KNOB.

If you touch the knob electronic, it can be damaged. Therefore, hold the knob electronics only within the marked area:

This completes the knob dismantling.

3. Connect the electronic knob to the Programming Adaptor.

Connecting the electronic knob to the Programming Adaptor

1. Place the knob without battery on the Programming Adaptor.

   Make sure that the large spring lies over the large groove and the small spring over the small groove.
1. If you touch the knob electronic, it can be damaged. Therefore, hold the knob electronics only within the marked area:

2. Push the knob down and simultaneously turning it clockwise. The knob thus engages in the Programming Adaptor.

3. Insert the batteries in the knob.
   - Use only Panasonic CR2 Industrial Lithium 3,0 V 850 mAh batteries.
   - Make sure that the battery strap lies below the battery and the end of the battery strap is protruding out.
   - The correct polarity is indicated in the BATTERY module.

   *The knob is now connected to the Programming Adaptor.*

4. Start the update program OMEGA Firmware Update.
Starting the firmware-Update

1. Open the program **OMEGA FIRMWARE UPDATE**.
2. Select the desired device category.
3. Select the desired product.
4. Select the desired programming device with which you want to transmit the firmware update.
5. Select the desired firmware.
6. Click on **UPDATE**.
   
   *If the selected device and a matching programming device are connected, the firmware update will now be transmitted.*

5. Wait till the OMEGA Firmware Update displays the message that the update was transmitted successfully.
6. Remove the knob from the programming device.
7. Remove the battery from the device.

   **Use the battery strap to remove the batteries.**

   **Do not use any foreign object to remove the batteries.**

8. Reassemble the electronic knob.

Assembling the electronic knob

Assembling an electronic knob on an assembled cylinder

1. Place the **ELECTRONIC KNOB** on the cylinder.

   *If you touch the knob electronic, it can be damaged. Therefore, hold the knob electronics only within the marked area:*
Make sure that the large spring lies over the large groove and the small spring over the small groove.

2. Insert the batteries with correct polarity.

- Use only Panasonic CR2 Industrial Lithium 3,0 V 850 mAh batteries.
- Make sure that the battery strap lies below the battery and the end of the battery strap is protruding out.
- The correct polarity is indicated in the battery module.

*The electronics knob blinks once red and once red-green.*

3. Place the knob sleeve on the electronic knob.

4. Tighten the knob sleeve with the CES-sleeve wrench and by hand.

- Do not use the CES knob-sleeve wrench to tighten the knob sleeve. If you screw the knob too tightly, you may damage the knob.
Make sure that the KNOB SLEEVE is screwed flush!

The knob is assembled now.

The knob is now ready for operation with the new firmware.

⚠️ In the case of a dual cylinder, make sure that you update **both** knobs of the cylinder.
5 Executing firmware updates for Long shield ILS

Required programming device: Programming Adaptor (ILS/SIS)

1. Connect the Programming Adaptor to your PC.

   If you are connecting the Programming Adaptor for the first time to the PC, the driver will be installed automatically now. You can then use the Programming Adaptor.

2. Dismantle the ILS handle set and remove the e-module.

Dismantling the ILS handle set

Dismantling Long shield ILS (using the example of a long-hole bore)

1. Loosen the FIXTURERING with the CES RING SPANNER.

2. Remove the FIXTURE RING, the INSIDE SHIELD and the SUPPORT FRAME, in that you guide these over the INSIDE LEVER HANDLE.
3. Remove the **BATTERY MODULE from the ASSEMBLY PLATE**.

4. Use the slot head screwdriver to unscrew the cable brackets and disconnect the cables.

5. Use the wrench to loosen the nuts and remove nuts, washers and, if present, the spring clip.
6. Pull off the OUTSIDE FITTING on the outer side of the door.

Remove e-module

Removal of e-module (using a shield for long-hole bores as an example)

1. Remove the fixing screws from the outside fitting.

   In case the Long shield ILS was attached to a rosette bore, you must first remove the COUNTERSUNK HEAD SCREWS (see next step).

2. Using the Allen key, loosen the COUNTERSUNK HEAD SCREWS and remove the ASSEMBLY PLATE from the OUTSIDE FITTING.
3. Push out the E-MODULE from the OUTSIDE FITTING.

4. Remove the plug from the E-MODULE.

3. Connect one of the both sockets of the Programming Adaptor to the e-module.

**Connecting the e-module to the Programming Adaptor**

1. Connect the supplied connection cable to one of the two sockets of the Programming Adapter.

2. Connect the connection cable to the e-module.

   The e-module is now connected to the Programming Adaptor.

   *If the e-module lights up red-green simultaneously, it is ready for the update.*
4. Start the update program OMEGA Firmware Update.

**Starting the firmware-Update**

1. Open the program **OMEGA Firmware Update**.
2. Select the desired device category.
3. Select the desired product.
4. Select the desired programming device with which you want to transmit the firmware update.
5. Select the desired firmware.
6. Click on **UPDATE**.

If the selected device and a matching programming device are connected, the firmware update will now be transmitted.

5. Wait till the OMEGA Firmware Update displays the message that the update was transmitted successfully.

The locking device restarts now. It is then ready for operation with new firmware.

6. Re-insert the e-module into the ILS handle set.

**Insert the e-module**

**Inserting the e-module**

1. Connect the plug to the **E-MODULE**.
2. Insert the E-MODULE in the OUTSIDE FITTING.

3. Make sure that the e-module is installed flush with the handle set.

4. Press the wiring harness into the recess so that it is not squashed or pinched.

Before reattaching the ASSEMBLY PLATE, all cables must be guided at the right place through the assembly plate. The cable routing differs depending upon the type of hole the Long shield ILS is attached to:
Cable routing for Long shield bores

5. Guide the cables through the top elongated hole of the MOUNTING PLATE.

⚠ Pull the cables so far that they are not pinched under the mounting plate.

Cable routing for rosette bores

5. Run the cables through the right rosette bore of the ASSEMBLY PLATE.

⚠ Pull the cables so far that they are not pinched under the mounting plate.

Cable routing for short shield bores

5. Guide the cable through the recess in the bore for the coupling follower in the ASSEMBLY PLATE.

⚠ Make sure that the cables are located in the groove on the back of the ASSEMBLY plate.

⚠ Pull the cables so far that they are not pinched under the mounting plate.

Assembly

6. Assemble the handle set. The assembly differs depending upon the type of hole the Long shield ILS is attached to:
A detailed assembly instruction for different assembly types can be found in the Manual for the Long shield ILS.
6 Executing firmware update for Smart shield SIS

Required programming device: Programming Adaptor (ILS/SIS)

1. Connect the Programming Adaptor to your PC.
   If you are connecting the Programming Adaptor for the first time to the PC, the driver will be installed automatically now. You can then use the Programming Adaptor.

2. Dismantle the SIS handle set and remove the e-module.

   Dismantling the SIS handle set and remove the e-module

   Dismantling and removal of the e-module

   1. Loosen the **FIXTURE RING** with the **CES RING** spanner.

   2. Remove the **FIXTURE RING** and the **SIS Shield**.

   3. Disconnect the **CABLE PLUG** from the **CABLE SOCKET**.
4. Remove the batteries.

⚠️ Remove the batteries only by hand. Do not use any foreign objects for this.

5. Remove the E-MODULE.

3. Connect the e-module to the Programming Adaptor.

**Connecting the e-module to the Programming Adaptor**

**Connecting e-module to the Programming Adaptor**

1. Connect the supplied connection cable to one of the two sockets of the Programming Adapter.

2. Connect the connection cable to the e-module.

   *The e-module is now connected to the Programming Adaptor.*

   ⚠️ Make sure to use the **vertical** cable socket.
If the e-module lights up red-green simultaneously, it is ready for the update.

4. Start the update program OMEGA Firmware Update.

   **Start firmware-Update**

   1. Open the program **OMEGA FIRMWARE UPDATE**.
   2. Select the desired device category.
   3. Select the desired product.
   4. Select the desired programming device with which you want to transmit the firmware update.
   5. Select the desired firmware.
   6. Click on **UPDATE**.

   *If the selected device and a matching programming device are connected, the firmware update will now be transmitted.*

5. Wait till the OMEGA Firmware Update displays the message that the update was transmitted successfully.

   *The locking device restarts now. It is then ready for operation with new firmware.*

6. Re-insert the e-module into the SIS handle set.

   **Insert e-module and assemble the SIS handle set**

   **Inserting and assembling the e-module**

   1. Insert the **E-MODULE**.

   ![Inserting e-module](image)

   *Make sure that the e-module locks firmly into place.*
2. Insert the batteries with correct polarity in the battery holder.

⚠️ Use only Energizer Ultimate Lithium 1,5V AAA batteries.

ℹ️ The correct polarity is indicated in the battery module.

3. Make cable connection between e-module and the bracket by plugging the cable into the vertical cable connector.

⚠️ Make sure that the cable plug is inserted the right way around (see figure). Otherwise the contacts may get damaged.

4. Put the SIS-Shield on the Bracket and put the fixture ring on the lever handle.

5. Pull the fixture ring tight with the CES ring spanner.

⚠️ Do not over tighten the fixture ring, otherwise the handle set may get damaged.
7 Maintenance

7.1 Device care
You can clean the programming adaptor with a soft, slightly damp cloth.

7.2 Service
For service assistance please contact your CES partner.
8 Notes on disposal

- Never dispose of the Programming Adaptor into normal household waste.
- Always observe the applicable national and regional regulations.
- Enquire with your city or municipal administration about the possibilities of recycling and an environmentally friendly and proper way for the disposal of the device and its constituent parts.

Packaging
The packagings of the OMEGA FLEX components are made from environmentally friendly, reusable materials. Specifically, these are:

- Outer packaging and inlays made of cardboard
- Inlays and protective foils made of Polyethylene (PE)

- Please dispose of the packaging in an environmentally friendly way through waste separation streams.
9 Technical data

9.1 Equipment features

<table>
<thead>
<tr>
<th>Article numbers</th>
<th>Programming Adaptor (Cylinder)</th>
<th>Programming Adaptor (ILS/SIS)</th>
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<tr>
<td>Connection values</td>
<td>USB connection, Type A/B</td>
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<tr>
<td>Permissible temperature</td>
<td>-20 °C to +70 °C</td>
<td></td>
</tr>
<tr>
<td>Prohibited atmospheres</td>
<td>Not suitable for operation in corrosive atmosphere (Chlorine, Ammonia, Lime water)</td>
<td></td>
</tr>
<tr>
<td>Permissible air humidity</td>
<td>0 … 95 % RH, non-condensing</td>
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</tr>
<tr>
<td>CE test</td>
<td>EN 55022 (2010); EN 55024 (2010)</td>
<td></td>
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9.2 Dimensions

9.2.1 Programming Adaptor (Cylinder)

9.2.2 Programming Adaptor (ILS/SIS)
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