CES OMEGA FLEX

Update-Terminals

Update-Terminal

Assembly and Operating Instructions

English

Version VA

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1 About this manual

If you do not understand the functions of the OMEGA FLEX system, please contact your CES partner for further information.

1.1 Design characteristics

- 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:

- Trained assembly personnel
- Maintenance personnel
- Operator

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 Validity of this manual

in all variants (see “Variants of OMEGA FLEX locking devices” on page 10).

- 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.

1.4 Manufacturer and Service

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For service assistance please contact your CES partner.

1.5 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 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

BRO2269-2
3 CE Declaration of conformity

The Declaration of Conformity is available online via www.ces.eu
4 About the OMEGA FLEX system

4.1 What is OMEGA FLEX?

OMEGA FLEX is a group of products consisting of various electronic locking devices and locking media, which can be combined arbitrarily with each other. Also a combination with mechanical locking cylinders is possible without problems.

The combination of OMEGA FLEX components chosen by you builds your personal OMEGA FLEX system, which can be extended or altered at any time.

4.2 How does the OMEGA FLEX work?

OMEGA FLEX is based on wireless communication between locking media and battery driven locking devices. Each locking media contains a transponder, which can transmit to and receive information from the locking devices wirelessly.

You can equip your door simply with an electronic locking device (e.g. Electronic cylinder) from the OMEGA FLEX system instead of a mechanical locking cylinder. Thereupon, the doors can be opened with an authorised locking media (e.g. with a key fob or an identity card, which contains a transponder).

If an authorised locking media is held in the reading field of a locking device, it couples and the door can be opened. After an interval (= "Opening duration") the locking device disengages automatically. As a result, the latchbolt and the deadbolt are not retracted when the locking device is actuated, and the door can no longer be opened.

Depending upon the intended purpose, OMEGA FLEX can fulfil a variety of complex tasks. So, e.g. besides the authorisations assigned for the locking media, also time slots can be defined within which these authorisations are valid (see "OMEGA FLEX system functions" on page 1).

4.3 Which system components are included in the OMEGA FLEX?

The OMEGA FLEX system comprises various locking devices, locking media and administration devices.
4.3.1 Locking devices

Locking devices are installed in or close to the door and they control the access there:

- Electronic cylinder
- Electronic handle sets
- Wall terminals
- Wireless switch

Locking devices are available in different variants (see “Variants of OMEGA FLEX locking devices” on the next page).

- The electronic handle set Long shield ILS is also available as mechanical locking device (Long shield MLS). This allows you to combine the electronic and mechanical handle sets with each other in a uniform design.

4.3.2 Locking media

The locking media can open the doors equipped with OMEGA FLEX locking devices:

- Key fob
- Key fob Slim line
- Key fob Premium
- Identity card
- Combination key
- Wireless key

A combination key is a mechanical key with integrated transponder to combine mechanical locking cylinder with electronic locking devices in a locking system.
4.3.3 Administration devices
Administration devices serve to manage the OMEGA FLEX system:

Master media  RF-Stick  Desktop-Reader and Desktop-Writer  Access-Point and repeater

PC with OMEGA Suite  Programming Adaptor  Programming cable

4.3.4 Update-Terminals
With Update-Terminals, the users can program and validate their locking media in V-Net themselves.

Key-Point  Update-Terminals (no locking device function)  Wall terminals (Wall terminal variant /VA, no programming function)

4.3.5 Variants of OMEGA FLEX locking devices
The different variants of the locking devices differ in the firmware that is located in the device. The variant determines whether a locking device is suitable for a particular purpose or for an administration type. Thus, e.g. only NET and VA locking devices can connect to a wireless online network.
### Variants and their relevance

<table>
<thead>
<tr>
<th>Variant</th>
<th>Meaning</th>
<th>Programming via</th>
<th>Online/ Offline</th>
</tr>
</thead>
<tbody>
<tr>
<td>/N</td>
<td>&quot;NoTime&quot;</td>
<td>Master media and an RF-Stick</td>
<td>Offline</td>
</tr>
<tr>
<td></td>
<td>(No time profiles, no events available)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>/T</td>
<td>&quot;Time&quot;</td>
<td>Master media and an RF-Stick</td>
<td>Offline</td>
</tr>
<tr>
<td></td>
<td>(Time profiles and events available)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>/NET</td>
<td>&quot;Net&quot;</td>
<td>Master media, RF-Stick and Access-Point</td>
<td>Online</td>
</tr>
<tr>
<td></td>
<td>(Wireless online network, Time profiles and events available)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### V NET

<table>
<thead>
<tr>
<th>Variant</th>
<th>Meaning</th>
<th>Programming via</th>
<th>Online/ Offline</th>
</tr>
</thead>
<tbody>
<tr>
<td>/NV</td>
<td>&quot;NoTime&quot; in V-NET</td>
<td>RF-Stick</td>
<td>Offline</td>
</tr>
<tr>
<td></td>
<td>(No time profile, no events are available)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>/TV</td>
<td>&quot;Time&quot; in V-NET</td>
<td>RF-Stick</td>
<td>Offline</td>
</tr>
<tr>
<td></td>
<td>(Time profiles and events available)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>/VA</td>
<td>&quot;Validation&quot;</td>
<td>RF-Stick and Access-Point</td>
<td>Online</td>
</tr>
<tr>
<td></td>
<td>(Validation function, wireless online network, time profiles and events available)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Availability of variants for different locking devices

<table>
<thead>
<tr>
<th>Variant</th>
<th>Electronic cylinder</th>
<th>Electronic Handle set</th>
<th>Wall terminals</th>
<th>Controls (Wireless switch)</th>
</tr>
</thead>
<tbody>
<tr>
<td>N</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>x</td>
</tr>
<tr>
<td>T</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>x</td>
</tr>
<tr>
<td>NET</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>x</td>
</tr>
<tr>
<td>NV</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>x</td>
</tr>
<tr>
<td>TV</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>x</td>
</tr>
<tr>
<td>VA</td>
<td>x</td>
<td>x</td>
<td>✓</td>
<td>x</td>
</tr>
</tbody>
</table>

### 4.3.5.1 Altering the variant of a locking device

By **extending the license** you can upgrade and downgrade the current variant of a locking device with the OMEGA Client and an RF-Stick, provided the new variant for the locking device is available. See "Availability of variants for different locking devices" above. Please contact your CES partner for the required license extension.

[่อ] A detailed manual is available in the **OMEGA Suite Help**.
5 Update-Terminal basics

5.1 About the Update-Terminal

An Update-Terminals allow the users to program their locking media themselves. The Update-Terminals can

- program the locking media (i.e. Add or delete authorisations)
- validate the locking media
- extend the validity of the locking media
- block the locking media

5.2 About the validation of locking media

The validation is a backup function in the V-NET. It specifies an expiry date for the locking media. From this date onwards, the locking media cannot be used any more.

Through the validation devices (Wall terminals, Key-Points and Update-Terminals) the expiry date can be extended. How frequently the expiry date must be extended is determined by you in that you specify the validation interval in the OMEGA Client.

**Example:** Company employees must validate their locking media every day at a Wall terminal at the company entrance, so that their locking media are usable.

Wall terminals and Update-Terminals are connected to the OMEGA Server via wireless online network; Key-Points via LAN. This enables all validation devices to read all events stored in the locking media and transmit it to the OMEGA Server. Key Points additionally transmit all other pending programming jobs to the locking media (e.g. alterations in the locking authorisations) during validation.

A regularly necessary validation ensures that a locking media that has fallen into the hands of unauthorised persons, can be blocked quickly and easily by the validation devices. Blocked locking media are not accepted by the locking devices as a rule.

Only locking media which are in service, can be validated.

**Example:** A locking media is valid for one year, however, it must be validated every day anew.

The validation is done via the CEStronics Suite. A detailed manual is available in the OMEGA Suite Help.

5.3 About the validity of the locking media

With the validity you can specify a time period within which the locking media can be used.
Example: You want to issue a locking media to a new employee already before the commencement of his work, however, the locking media should only be usable from his first working day.

In addition, the end-date of the validity ensures that from a chosen time onwards, no access can be made.

Locking media must be valid so that they can

- open locking devices
- can be validated

The validity is specified in OMEGA Client. Both, the V-NET and the LINE Locking media can be assigned a validity. However, it is not mandatory to specify the validity for a locking media.

In the V-NET, the validity data can be transmitted through a Desktop-Writer or an Update-Terminal to a locking media. After expiry of validity, a locking media must be reprogrammed so that it can be used again.

In the case of LINE a programming job is automatically created after the validity has expired. If a wireless online network is used, the programming jobs are automatically transmitted to the locking devices.

The validity is set via the CEStronics Suite. A detailed manual is available in the OMEGA Suite Help.

5.4 About the blocking of locking media

In V-NET, the locking media which are not supposed to be in use are not deleted but rather blocked. The information that a locking media is blocked is stored in the locking media. Locking devices have block lists, which contain the blocked locking media. Each authorisation attempt triggers the following:

- The locking device checks whether the locking media is blocked. Only unblocked locking media are accepted.
- If a locking media is unblocked but is on the block list, the locking device transmits information to the locking media that this locking media is blocked.

The locking media are blocked via the CEStronics Suite. A detailed manual is available in the OMEGA Suite Help.
6 Assembly

6.1 Scope of delivery

1 1 Assembly frame
2 1 Update-Terminal (Consisting of cover and controller)
3 2 Universal screws 2.5 x 20 mm
4 2 Dowel (for fixing screws)
5 2 Fixing screws 3 x 30 mm

6.2 Parts description

1 Shield
2 Controller
3 Assembling frame
6.3 Connections

1. Connections for potential-free switch (not used currently)
2. Connection for relay (no function)
3. Connections for power supply
4. Screw terminals from controller to reader (not required for WT-I and Update-Terminal)

6.4 Wiring

1. Screw terminal for power supply, 12-24 V AC/DC
2. Screw terminal for power supply, 12-24 V AC/DC
### 6.5 Assembly

#### Tools required:

<table>
<thead>
<tr>
<th>Tool</th>
<th>Required for</th>
</tr>
</thead>
<tbody>
<tr>
<td>Slot-head screwdriver</td>
<td>Lifting the cover</td>
</tr>
<tr>
<td>5 mm bis 9 mm Slot width</td>
<td></td>
</tr>
<tr>
<td>PZ1</td>
<td>Screwing the universal screws</td>
</tr>
<tr>
<td></td>
<td>Screwing the fixing screws (in case you use the</td>
</tr>
<tr>
<td></td>
<td>delivered ones)</td>
</tr>
<tr>
<td>Drill</td>
<td>Drill holes in the mounting surface</td>
</tr>
<tr>
<td></td>
<td>depends on the mounting surface</td>
</tr>
</tbody>
</table>
Assembly preparations

1. Remove the Update-Terminal from the MOUNTING FRAME (if mounting frame is available).
   
   You are now holding the Update-Terminal (consisting of CONTROLLER and COVER) in your hands.

2. Loosen the COVER, by setting the slot head screwdriver (5 mm to 9 mm slit width) in the recess in the cover and lift it gently.

3. Remove the COVER by lifting it off.

   You can now assemble the CONTROLLER with the help of the two elongated holes (1).
Assembling Update-Terminal

You can assemble the Update-Terminal in two ways:

**Surface mounting**
You use the mounting frame.

**Flush mounting**
You do not use the mounting frame. A flush-mounted switch box must be available.

⚠️ For both mounting options, ensure that the mounting frame on the switch box is positioned horizontally and the fixing holes of the controller are positioned horizontally.

⚠️ For both mounting options ensure that all cables required for the connection are present and have been guided through the mounting frame or the switch box without being damaged or squeezed.

1. **Only for surface mounting. Mount the mounting frame on the surface.**

   For mineral subfloors (Stone, concrete, etc.) use the supplied DOWELS and FIXING SCREWS. For other surfaces, you can purchase suitable fasteners from your CES partner for fastening technology.
2. Make all necessary cable connections, see “Wiring” on page 15.  

⚠️ Make sure that wiring is carried out only by electricians or by specialists trained by CES partner.

3. Screw the CONTROLLER with two UNIVERSAL SCREWS on the mounting frame or on the switch box.  

⚠️ While assembling, make sure that the LEDs (1) are positioned on the top.

4. Place the COVER at an angle on the CONTROLLER.
5. Push the **COVER on the CONTROLLER**, until it snaps in audibly.

The *Update-Terminal* is now assembled.
7 Administration

The Update-Terminals are operated within a wireless online network.

7.1 About the administration of the wireless online network

The administration via a wireless online network is done through a permanent online connection. The administration is done centrally by the OMEGA Client, i.e. the programming jobs are transmitted automatically via wireless online connection to the online locking devices.

If you administer your OMEGA FLEX system with an RF-Stick, you will need at least the following administration devices and master media:

- PC with OMEGA Client installed
- Access-Point(s)
- System-Master
- RF-Ini-Master

**Basic procedure for administration via V-Net:**

1. You build a wireless online network with Access-Points.
2. You read all required OMEGA FLEX components in the OMEGA Client. A detailed manual is available in the OMEGA Suite Help.
3. You specify the locking authorisations, time profiles etc. in OMEGA Client. A detailed manual is available in the OMEGA Suite Help.
4. The programming jobs are automatically transmitted via the wireless online network to the online locking devices.

7.2 Integrating the Update-Terminal in the wireless online network

A detailed manual is available in the OMEGA Suite Help.
1. **Optional:** Specify the radio cell for the Update-Terminal.

- A detailed manual is available in the **OMEGA Suite Help**.

- If you specify the radio cell, you must authorise the RF-Stick-Master for the Update-Terminal to transmit the radio cell changes to the Update-Terminal via an RF-Stick.

2. **Make sure that the Update-Terminal is close to an Access-Point and activate the online mode of the Update-Terminal.**

- The Access-Point must have the same radio cell as the Update-Terminal.

3. **Check the quality of the radio link.**

4. **In the Omega client, set the programming mode of the Update-Terminal to **ONLINE**, so that future programming jobs can be transmitted via the wireless online network.**
7.3 Authorising System-Master

After the System-Master has been read into your OMEGA client, it is automatically authorised to program the Update-Terminal. If it is not read or if you want to specify a radio cell before the first programming, you must authorise it manually.

**Required master media:**

- System-Master

**Procedure:**

1. Hold the System-Master for ca 1 second in the reading field of the Update-Terminal and then remove it from the reading field. 
   
   The following signal appears:
   
   1x short green and 1x short beep

2. Hold the System-Master for ca 1 second in the reading field of the Update-Terminal and then remove it from the reading field.

   The following signal appears:
   
   1x long green and 1x long beep

   The System-Master is now authorised for this Update-Terminal.

**Troubleshooting:**

<table>
<thead>
<tr>
<th>Signalling</th>
<th>Reason</th>
<th>Solution</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>The System-Master does not have the correct system identification code. Use the System-Master with correct system identification code.</td>
<td></td>
</tr>
</tbody>
</table>

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<table>
<thead>
<tr>
<th>Signalling</th>
<th>Reason</th>
<th>Solution</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Another System-Master has already been authorised for this locking device.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Since, at any given time only one System-Master exists which can be authorised on the basis of individual system identification code for a locking device, there is reason to suspect manipulation. Contact your CES partner immediately!</td>
<td></td>
</tr>
</tbody>
</table>
7.4 Authorising an RF-Stick-Master

The authorisation of the RF stick master is only necessary if you want to specify a radio cell.

Required master media:

- System-Master
- RF-Stick-Master

Procedure:

1. Hold the System-Master for ca 1 second in the reading field of the Update-Terminal to end the "authorise master media mode.
   The following signal appears:
   1x short green and 1x short beep.

2. Hold the RF-Stick-Master for ca 1 second in the reading field of the Update-Terminal.
   The following signal appears:
   1x short green and 1x short beep.
3. Hold the System-Master for ca 1 second in the reading field of the locking device to end the “authorise master media” mode.

The following signal appears:
1x long green and 1x long beep.

The “authorise master media” mode will end automatically after 5 seconds. Die new authorisations remain stored.

The RF-Stick-Master is now authorised for the Update-Terminal.

Troubleshooting:

<table>
<thead>
<tr>
<th>Signalling</th>
<th>Reason</th>
<th>Solution</th>
</tr>
</thead>
<tbody>
<tr>
<td>![Signal 1] ![Signal 2]</td>
<td>The master media could be read but could not be authorised:</td>
<td>a) Use a master media with the correct system identification code.</td>
</tr>
<tr>
<td>![Signal 3]</td>
<td>b) The master media does not have the correct system identification code.</td>
<td>a) Use a master media with the correct system identification code.</td>
</tr>
<tr>
<td>![Signal 4]</td>
<td>b) You have used a locking media instead of a master-media.</td>
<td>b) Use a master media.</td>
</tr>
</tbody>
</table>
7.5 Transmitting radio cell settings via an RF-Stick

After you have specified a radio cell in the OMEGA Client (A detailed manual is available in the OMEGA Suite Help.), you must transmit the settings via an RF-Stick to the Update-Terminal.

**Required master media and administration devices:**

- RF-Stick-Master
- RF-Stick
- PC with OMEGA Client installed

**Procedure:**

1. Proceed with your PC and the RF-Stick connected to it to the Update-Terminal into which you want to transmit the radio cell settings.

2. Hold the RF-Stick-Master briefly in the reading field of the Update-Terminal.
   
   The following signal appears:
   
   1x short green and 1x short beep

3. The Update-Terminal now searches for an RF-Stick nearby.

   The distance between the Update-Terminal and the RF-Stick must not exceed ten meters.
As soon as the RF-Stick has been detected, the transmission begins. During transmission, the Update-Terminal device flashes green. The radio cell settings are now transmitted to the Update-Terminal.

After transmission is completed, the RF-Stick and the Update-Terminal are disconnected automatically. The programming job transmission is complete when the Update-Terminal signals 1x long green and 1x long beep.

Troubleshooting:

<table>
<thead>
<tr>
<th>Signalling</th>
<th>Reason</th>
<th>Solution</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>The Update-Terminal cannot detect any RF-Stick nearby.</td>
<td>Move with a properly connected RF-Stick closer to the Update-Terminal and try to transmit the programming jobs once again.</td>
</tr>
</tbody>
</table>
### 7.6 Activating the online mode of an Update-Terminal

**Required master media:**

- RF-Ini-Master

*For the activation of online mode it is not necessary to authorise the RF-Ini-Master in advance.*

**Procedure:**

4. **Hold the RF-Ini-Master for ca 1 second in the reading field of the Update-Terminal.**

   *Following signals appear:*

   - **A:** 1x short green and 1x short beep
     = *successfully connected to the Access-Point*
   - **B:** 1x long red and 1x long beep
     = *no connection to the Access-Point possible*
   - **C:** 1x long green and 1x long beep
     = *Connection to the Access-Point existed already*

5. **Remove the RF-Ini-Master from the reading field.**

   *The online mode is now deactivated.*

*Even if no connection was possible with the Access-Point, the Update-Terminal is now in online mode. Once an Access-Point is found, it will connect itself automatically.*
7.7 Deactivating the online mode of an Update-Terminal

Required master media:

- RF-Ini-Master

For the deactivation of the online mode it is not necessary to authorise the RF-Ini-Master in advance.

Procedure:

1. Hold the RF-Ini-Master for ca two seconds in the reading field of the Update-Terminal.
   
   *The following signal appears:*
   
   2x short green and 2x short beep

2. Remove the RF-Ini-Master from the reading field.

   *The online mode is now deactivated.*
7.8 Checking quality of wireless connection

Required master media:

- RF-Trace-Master

The RF-Trace-Master is ready for immediate use and does not have to be authorised first.

Procedure:

1. Hold the RF-Trace-Master for ca 1 second in the reading field of the Update-Terminal.

   The following signal appears:

   1x short green and 1x short beep
2. The locking device shows now the quality of the wireless connection:

- ⬜⬜⬜⬜⬜... Very good
- ⬜⬜⬜⬜... 4 green bars... sufficient
- ⬜⬜⬜... 3 green bars... weak
- ⬜⬜... 2 green bars... No wireless connection

The Access-Point associated with the Update-Terminal shows during wireless connection test the quality of the wireless connection with the same signalling as the locking device.

3. Hold the RF-Trace-Master ca 1 second in the reading field to end the wireless connection quality display.

The following signal appears:

1x long green and 1x long beep

The testing of the wireless connection quality is finished herewith.

After 3 minutes, the wireless connection quality display will end automatically.
7.9 Authorising an RF-Stick-Master

Required master media:

- System-Master
- RF-Stick-Master

Procedure:

1. Hold the System-Master for ca 1 second in the reading field of the Update-Terminal to start the “delete master media mode” of the locking device.
   
   The following signal appears:
   
   1x short green and 1x short beep

2. Hold the RF-Stick-Master for ca 5 second in the reading field of the Update-Terminal.
   
   The following signal appears:
   
   2x short green and 2x short beep

3. Hold the System-Master for ca 1 second in the reading field of the Update-Terminal to end the “delete master media mode”.
   
   The following signal appears:
   
   1x long green and 1x long beep
The “delete master media mode” will end automatically after ca 5 seconds. The master media which were previously held in reading field will be deleted from the Update-Terminal.

The RF-Stick-Master is now not authorised for the Update-Terminal any more.

Troubleshooting:

<table>
<thead>
<tr>
<th>Signalling</th>
<th>Reason</th>
<th>Solution</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>The master media was held too short in the reading field of the Update-Terminal.</td>
<td>Keep the master media for a longer period in the reading field of the Update-Terminal.</td>
</tr>
<tr>
<td></td>
<td>The authorisation was not deleted.</td>
<td></td>
</tr>
</tbody>
</table>
7.10 Deleting System-Master

If you have lost the RF-Stick-Master, you can delete the RF-Stick-Master from the Update-Terminal by deleting the System-Master.

Required master media:

- System-Master

Procedure:

1. Hold the System-Master for ca 5 seconds in the reading field of the Update-Terminal. 
   
   The following signal appears:
   
   2x short green and 2x short beep

2. Remove the System-Master from the reading field of the Update-Terminal.
   
   The System-Master and the RF-Stick-Master have now been deleted from the Update-Terminal
This chapter is intended for persons who program their locking media with an Update-Terminal.

### 8.1 Programming Locking media

**Procedure:**

1. Hold an authorised V-NET locking media in the reading field of the Update-Terminal (maximum distance ca 10 mm).
   
   The following signal appears:
   
   1x long blue signal followed by blue flashing signals (= Programming is in progress). After the programming has been completed successfully, the Update-Terminal flashes 1x short green.
   
   The locking media is now programmed.

**Troubleshooting:**

<table>
<thead>
<tr>
<th>Signalling</th>
<th>Reason</th>
<th>Solution</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image" alt="Signal" /></td>
<td>You have held a LINE locking media in the reading field.</td>
<td>Only V-NET locking media can be used with Update-Terminals.</td>
</tr>
<tr>
<td><img src="image" alt="Signal" /></td>
<td>The locking media has been blocked or is not valid any more.</td>
<td>Locked or invalid locking media cannot be used. Contact your system administrator.</td>
</tr>
<tr>
<td><img src="image" alt="Signal" /></td>
<td>It is not possible to write to the locking media.</td>
<td>a) There is no connection between the Update-Terminal and the Access-Point. b) The locking media is defective. Contact your system administrator.</td>
</tr>
<tr>
<td><img src="image" alt="Signal" /></td>
<td>The locking media was not held close enough to the reading field of the Update-Terminal.</td>
<td>Hold the locking media closer to the reading field of the Update-Terminal.</td>
</tr>
<tr>
<td><img src="image" alt="Signal" /></td>
<td>The reading field of the Update-Terminal is covered by metallic materials.</td>
<td>Remove the metallic materials from the reading field of the Update-Terminal.</td>
</tr>
</tbody>
</table>
8.2 Validating the locking media

Procedure:

1. Hold an authorised V-NET locking media in the reading field of the Update-Terminal (maximum distance ca 10 mm).

   The following signal appears:
   1x long blue followed by 1x short green

   The locking media is now validated.

   In case you wanted to program the locking media, it has however only been validated, then it could be due to following reasons:
   - no programming jobs for the locking media were existing
   - the Update-Terminal is not connected to the Access-Point

   In both cases, contact your system administrator.

Troubleshooting:

<table>
<thead>
<tr>
<th>Signalling</th>
<th>Reason</th>
<th>Solution</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image1.png" alt="Image" /></td>
<td>You have held a LINE locking media in the reading field.</td>
<td>Only V-NET locking media can be used with Update-Terminals.</td>
</tr>
<tr>
<td><img src="image2.png" alt="Image" /></td>
<td>The locking media has been blocked or is not valid any more.</td>
<td>Locked or invalid locking media cannot be used. Contact your system administrator.</td>
</tr>
</tbody>
</table>
| ![Image](image3.png) | It is not possible to write to the locking media. | a) There is no connection between the Update-Terminal and the Access-Point.  
 b) The locking media is defective.  
 Contact your system administrator. |
| ![Image](image4.png) | The locking media was not held close enough to the reading field of the Update-Terminal. | Hold the locking media closer to the reading field of the Update-Terminal. |
| ![Image](image5.png) | The reading field of the Update-Terminal is covered by metallic materials. | Remove the metallic materials from the reading field of the Update-Terminal. |
9 Disposal

9.1 Notes on disposal

- 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.

Package

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

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

- Please dispose of the packaging in an environmentally friendly way through waste separation streams.
A
Administration device 10

C
Coupled 8

D
Decoupled 8

L
Locking device 8-9
Variants 10
Locking media 8-9

O
OMEGA FLEX system 8
Opening duration 8

T
Target group of the manual 4
Transponder 8
V

Validation 12

Validity 12

Variants (locking devices) 10
  changing 11
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