

# dormakaba Programmer 1460

## User Manual

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EN

dormakaba 

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# 1 Regarding this document

This section contains information about properly using this document.

## 1.1 Validity

This document describes the product:

Product designation:	Programmer 1460
Types:	1460
Firmware version:	from 01.34 onwards
Article number:	1460

## 1.2 Target group

This manual is intended for skilled persons only.

The descriptions are intended for skilled persons trained by the manufacturer. This manual is not a replacement for product training.

For reasons of equipment safety, the installation, maintenance and service measures described in this documentation should only be carried out by skilled persons in accordance with EN 62368-1 (Audio/Video, Information and Communication Technology Equipment – Part 1: Safety Requirements).

Skilled person is the designation for people who have the appropriate technical training and experience in setting up the equipment. Skilled persons are expected to use their training and experience to identify any risks to themselves and others that may arise while carrying out these activities, and to minimise these risks as far as possible. It is the skilled person's responsibility to ensure that the conditions stated by the manufacturer and the applicable regulations and standards are complied with when carrying out these actions.

This documentation is also used to provide information for persons with the following tasks:

- Project planning and project implementation
- Connecting the product to user software by programming customer applications
- Customer-specific adjustments with product parameterisation

## 1.3 Contents and purpose

The contents of the guide are limited to operation, putting into operation, programming, data transmission and servicing of the product.

## 1.4 Document availability

Additional documentation is available on the dormakaba website. The manuals can be found in a protected area (extranet). They can be accessed using the user account of trained specialists or a temporary user account.

<https://www.dormakaba.com/extranet-emea-en/login>

## 1.5 Supplementary documentation



- evolo system description
- PG wireless gateway 90 40 planning guideline
- System software documentation, e.g. KEM

## 1.6 Abbreviations/definition of terms

To make this document easier to read, the following short designations are used for the product designations, as well as the following symbols:

Short name	Product designation/definition
evolo	dormakaba evolo
Reader	dormakaba remote reader
	dormakaba compact reader
Digital cylinder	dormakaba digital cylinder
Mechatronic cylinder	dormakaba mechatronic cylinder, surface-fixed
	dormakaba mechatronic cylinder, compact
	dormakaba mechatronic cylinder, forend
Terminal	dormakaba terminal 94 20
TouchGo	dormakaba c-lever TouchGo
c-lever	dormakaba c-lever
	dormakaba c-lever compact
	dormakaba c-lever pro
	dormakaba c-lever air
Cabinet lock	dormakaba cabinet Lock 21 10
Wireless Reader	dormakaba remote reader 91 15 (E320) with wireless extension module 90 43
Desktop reader	dormakaba desktop reader 91 08
Programmer 1364	dormakaba Programmer 1364
Programmer 1460	dormakaba Programmer 1460
KEM	dormakaba evolo Manager
EST	dormakaba EAC Service Tool
UID	Unique number
MRD	Multi RFID device
AoC	Access on Card
OSS-SO	OSS Standard Offline
NFC	Near Field Communication
Bluetooth	Bluetooth®
BLE	On the PD display: Bluetooth Low Energy

Symbols	
	Acoustic signal
	Visual signal

There is no visual signalling for components without a visual display option.

## 1.7 Warnings

This manual contains information that you must observe for your own personal safety and to avoid material damage. The information regarding your personal safety is highlighted via a warning triangle; information regarding isolated material damage does not have a warning triangle. Depending on the hazard level, the warning information is displayed in decreasing order as follows:



### **DANGER**

#### **High risk**

Indicates an imminent danger which could cause severe physical injury or death.



### **WARNING**

#### **Medium risk**

Indicates a possibly dangerous situation which may lead to severe physical injury or death.



### **CAUTION**

#### **Low risk**

Indicates a possibly dangerous situation which may lead to minor physical injury.



### **NOTICE**

#### **Important information on the correct use of the product.**

Failure to comply with these instructions could lead to malfunctions. It is possible to damage the product.

The warning information for the highest level in each case is always used when several hazard levels occur at the same time. If warning information warns about personal injury, the same piece of warning information may also warn about material damage.

Other warning symbols:



General hazard



Risk of explosion



Danger from electric voltage



ESD: Danger from electrostatic discharge

Useful tips and information regarding safe operation of the product are labelled as follows:



Tips for usage, useful information.

These help to make the best use of the product and its functions.

## 2 Basic safety instructions

This product has been built to state-of-the-art standards and in line with established safety regulations. However, hazards for persons and property may arise when handling the product.



Read and observe the following safety instructions before using the product.

### 2.1 Designated use

This product is intended for use as specified and explained in the Product description section only. Any other use is considered non-designated use. The manufacturer is not liable for any damage or injury due to non-designated use. The user/facility operator is the sole person to bear risks for non-designated use.

### 2.2 Safety information

The following safety instructions must be followed for safe use of the device.



#### CAUTION

**The electronic device must be protected from the following external influences:**

direct sunlight

direct heat sources (such as heating)

direct fluids (such as water)

temperature fluctuations (e.g. below 0°C).

### 2.3 Service and maintenance

Conversions and modifications to the product may only be done skilled personnel (see chapter 1 Target group). Any conversions and modifications performed by other persons will exempt us from any liability.

Opening the device will lead to exclusion of all liability and warranty.

This excludes replacing the batteries.

The elimination of faults and maintenance work may only be performed by skilled personnel (see chapter 1 Target group).

## 2.4 ESD prevention measures



### NOTICE

#### **Risk for electronic components due to electrostatic discharge.**

Incorrect handling of electronic PCBs or components can result in damage which will cause a complete breakdown or sporadic errors.

- General ESD prevention measures must be observed when installing or repairing the product.
  - Wear an anti-static wrist strap when handling electronic components. Connect the end of the strap to a discharge box or a non-painted, earthed metal component. This way, static discharges are channelled away from your body safely and effectively.
  - Handle a PCB along its edges only. Do not touch the PCB or connectors.
  - Place dismantled components on an anti-static surface or in an anti-static shielded container.
  - Avoid contact between PCBs and clothing. The wrist strap protects PCBs against an electrostatic discharge voltage from the body only. However, damage can also be caused by an electrostatic discharge voltage from clothing.
  - Transport and ship dismantled modules in conductive anti-static bags only.
-






















### 3.1.2 Display symbols

In each menu, the display shows various symbols or moving symbols for the user's information.

The most important symbols are explained below.

Sym-bols	Meaning/Function
	Export menu
	Import menu
	Settings menu
	Battery charge status
	Settings
	Programmer
	Data
	USB connected
	Connect to programmer
	Firmware
	General symbol for actuators
	Digital cylinder
	c-lever
	Cylinder
	Locker lock
	Reader
	c-lever compact

### 3.2 Scope of delivery

- 1 USB cable (for programming and configuration)
- 1 mains adapter
- 1 quick guide

### 3.3 Technical details

Technical data		
<b>Dimensions</b>		
W x H x D	88 x 190 x 40 mm	
Weight	350 g	
<b>Version</b>		
Housing	Plastic	
Display	LCD	
<b>Power supply</b>		
Battery	NiMH	
Ext. power supply	USB, 5 V/max. 350 mA	
Charger	100–240 V AC, 50–60 Hz	
<b>Radio interface</b>		
RFID	Specifications according to EN 300 330 V2.1.1: Frequency band: 11.81 MHz to 15.31 MHz (RFID only). Centre frequency: 13.56 MHz	Wireless communication with the components
<b>Interfaces</b>		
Cable	Programming cable	Cable-linked connection with the components
USB	USB interface for PC connection	Data transfer from and to system software
<b>Memory capacity</b>		
internal SD card	Sites, authorisations, trace-back	Approx. 500 data records can be stored per master key system
<b>Ambient conditions</b>		
Protection type	IP40	
Temperature	0 ...+50 °C	
Humidity	0 ... 95% RH, non-condensing	

### 3.4 Conformity



This product conforms to the EU directives

2014/53/EU

Radio Equipment Directive

2011/65/EU

RoHS Directive



You can download the original declaration of conformity in PDF format at [www.dormakaba.com/conformity](http://www.dormakaba.com/conformity).

## 4 Operation

This section describes operation of the product.

### 4.1 Control elements

#### 4.1.1 ON/OFF button

Switch programmer on and off.

1. Press the ON/OFF button for about two seconds.



If PIN protection is active, the PIN must be specified when switching on.

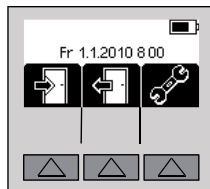
If an incorrect PIN is input 6 times in succession, the PIN and the locking plans on the programmer are deleted.

- Further information on PIN protection can be found in the Chapter [▶ 4.5.1.10](#).

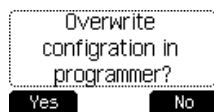
#### 4.1.2 Menu buttons

The programmer is operated using the keypad.

The three menu buttons under the display are directly related to the display. Every button is assigned a menu.



Additional button functions are displayed in the dialogues on the display, e.g. for making decisions.



#### 4.1.3 Navigation buttons and ENTER

The three buttons under the menu buttons are the two navigation buttons (UP, up arrow, and DOWN, down arrow) and the confirmation button (ENTER).

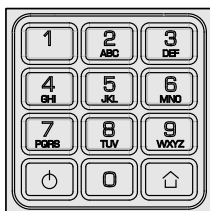


The UP and DOWN buttons are used to select the next sub-menu for example, and ENTER to open it.



### 4.1.4 Alphanumeric buttons

Use the alphanumeric buttons to enter letters, digits and different signs.



### 4.1.5 Home button

The Home key always takes the user back to the previous menu (from every menu and dialogue).



## 4.2 Switching on the programmer



If PIN protection is active, the PIN must be specified when switching on.

If an incorrect PIN is input 6 times in succession, the PIN and the locking plans on the programmer are deleted.

- Further information on PIN protection can be found in the Chapter [▶ 4.5.1.10](#).

1. Press the ON/OFF button for about two seconds.

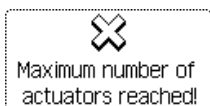


—> The main menu is opened.



## 4.3 Display dialogues

During operation, the display shows a number of different dialogues with prompts and messages.



1. Watch the display carefully during operation of the programmer.
2. Confirm the prompts and messages.

## 4.4 Wireless programming



During data transmission, never remove the programmer from the antenna panel of the components (as otherwise transmission will abort).

The radio interface (NFC) is used for wireless programming and configuration.

For this, the programmer must be held with its front pointing directly at the component antenna.



**Example: c-lever**

## 4.5 Settings

Different properties and settings can be adjusted in the Settings menu.

- Actuators
- Data
- Programmer
- Firmware update
- Emergency power supply



### 4.5.1 Programmer settings

1. Press the 'Settings' menu key.



2. Use the navigation keys to select the 'Programmer' menu.



3. Press the ENTER key.

⇒ The properties are displayed.

#### 4.5.1.1 Setting the language

1. Open the 'Settings' menu.
2. Open the 'Programmer' menu.
3. Select the 'Language' entry.



4. Press the ENTER key.
  5. Select the desired language from the list.
  6. Press the ENTER key.
- ⇒ The language setting is saved.

#### 4.5.1.2 Setting the display contrast

1. Open the 'Settings' menu.
2. Open the 'Programmer' menu.
3. Choose the 'Contrast' sub-menu.



4. Press the ENTER key.
  5. Select the desired contrast value using the navigation keys.
  6. Press the ENTER key.
- ⇒ The value is saved.

#### 4.5.1.3 Setting the volume

1. Open the 'Settings' menu.
2. Open the 'Programmer' menu.
3. Choose the 'Volume' sub-menu.



4. Press the ENTER key.
  5. Select the volume level using the navigation keys.
  6. Press the ENTER key.
- Note:** The value < 1 means "mute".
- ⇒ The value is saved.

#### 4.5.1.4 Setting the date and time



Correctly set values for date and time ensure time management with the components is up-to-date.

1. Open the 'Settings' menu.
2. Open the 'Programmer' menu.
3. Select the 'Date/Time' sub-menu.

```

Programmer
-----
Volume
Date / Time
Backlight
  
```

4. Press the ENTER key.
  - ⇒ The cursor (flashes) shows the active position.

```

Date / Time
-----
01.01.2010
08:00      Friday
  
```

5. Enter the current date and time using the alphanumeric keys.
  - Note:** Change the positions of the cursor using the navigation keys.
6. Press the ENTER key.
  - ⇒ The current values are saved.

#### 4.5.1.5 Setting the lighting

1. Open the 'Settings' menu.
2. Open the 'Programmer' menu.
3. Choose the 'Lighting' sub-menu.

```

Programmer
-----
Date / Time
Backlight
Key click
  
```

4. Press the ENTER key.
5. Select the lighting variant.

```

Backlight
-----
○ Off
● Automatic
○ Always on
  
```

6. Press the ENTER key.
  - ⇒ The selection is saved.



#### 4.5.1.6 Setting the button tone



A warning always sounds when keys are pressed incorrectly.

1. Open the 'Settings' menu.
2. Open the 'Programmer' menu.
3. Choose the 'Key tone' sub-menu.

```

Programmer
Backlight
Key click
Turn-off timeout
  
```

4. Press the ENTER key.
  5. Select the desired property.
  6. Press the ENTER key.
- ⇒ The selection is saved.

#### 4.5.1.7 Setting the switch-off time



Setting the optimum switch-off time enables the power consumption of the programmer to be reduced and operation until the battery next requires charging to be prolonged.

1. Open the 'Settings' menu.
2. Open the 'Programmer' menu.
3. Select the 'Switch-off time' sub-menu.

```

Programmer
Key click
turn-off timeout
Name
  
```

4. Press the ENTER key.
5. Select the switch-off time.

```

Turn-off timeout
o 2 minutes
o 5 minutes
o 10 minutes
  
```

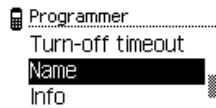
6. Press the ENTER key.
- ⇒ The selection is saved.

### 4.5.1.8 Entering a name



A restart is required to show a new name on the display.

1. Open the 'Settings' menu.
2. Open the 'Programmer' menu.
3. Select the 'Name' sub-menu.



4. Press the ENTER key.  
**Note:** Use the right menu key (a/A) to switch between upper and lower case.  
 Use the left menu key (x) to delete a previous entry.
  5. Enter a name using the alphanumeric keys (max. 28 characters).
  6. Press the ENTER key.
- ⇒ The name is saved.

### 4.5.1.9 Info

1. Open the 'Settings' menu.
2. Open the 'Programmer' menu.
3. Select the menu option 'Info'.

Programmer information is displayed:

SW	Software version
CS	Check sum
HW	Hardware version

Press the ENTER key to exit the menu.

### 4.5.1.10 PIN protection

A PIN is set up on the Programmer for protection from unauthorised use. There is a prompt for the PIN upon switching on the Programmer. The PIN does not have to be input any more until the Programmer is switched off.



If a PIN has been set up through the system software, it is overwritten by the PIN set up with the menu.

A PIN that has been set up through the menu of the Programmer cannot be changed by the system software.

- The PIN can be set up using the system software as described in the system software manual.
- The PIN is set up from the menu of the Programmer.

#### Setting up the PIN from the menu of the Programmer:

1. Select the menu 'PIN Protection'.
  2. Select the menu 'Set PIN'.
  3. Input the desired PIN twice.
- ⇒ If both inputs match, the PIN is saved. PIN protection is active.

#### Change PIN:



If a PIN has been set up via the system software, it is to be input as the "old PIN".

1. Select the menu 'PIN Protection'.
2. Select the menu 'Change PIN'.
3. Input the old PIN.
4. Input the new PIN twice.
  - ⇒ If the inputs (old PIN, the new PIN twice) are not correct, the PIN is not changed.

#### Deleting the PIN and the locking plans on the Programmer:



Deleted key plans cannot be restored.

- Re-import the key plans.

1. Select the menu 'Delete PIN'.
  - ⇒ A confirmatory warning is displayed, asking whether the PIN and the locking plans on the Programmer should be deleted.
2. Select 'Yes'.
  - ⇒ The PIN and the locking plans are deleted on the Programmer.

#### 4.5.1.11 Comfort update

In these settings, the programmer's behaviour during a comfort update is determined. In the 'Configuration' menu, you can select whether the configuration saved in the component or in the programmer should be preferred during a firmware update. In the 'Traceback' menu, you can select whether the traceback of the component should be downloaded.

##### 'Configuration' menu

1. Open the 'Settings' menu.
2. Open the 'Programmer' menu.
3. Open the 'Comfort update' menu.
4. Select the 'Configuration' sub-menu.

Select	The user decides whether the existing configuration of a component should be preferred over a configuration saved in the programmer.
Prefer internal	The configuration of the component saved in the programmer is preferred.
Prefer existing	The configuration saved in the component is preferred.

##### 'Traceback' menu

1. Open the 'Settings' menu.
2. Open the 'Programmer' menu.
3. Open the 'Comfort update' menu.
4. Select the 'Traceback' sub-menu.

Select	The user chooses for this firmware update.
Prefer internal	The component traceback data saved in the programmer are preferred.
Prefer existing	The traceback data saved in the component are preferred.
Do not read	The traceback data are not read and are lost during update.

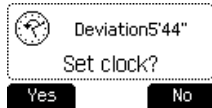
#### 4.5.2 Actuator settings



Valid master media are required for some settings.

#### 4.5.2.1 Setting the time

1. Open the 'Settings' menu.
2. Open the 'Actuator' menu.
3. Log in to the actuator using the master medium.
4. Connect the programmer to the actuator.
5. Choose the 'Set clock' sub-menu.
6. Press the ENTER key.



7. Select "Yes".
- ⇒ The time is updated.

#### 4.5.2.2 Battery change

In this menu, a time stamp is created for the battery change.


1. Open the 'Settings' menu.
2. Open the 'Actuator' menu.
3. Log in to the actuator using the master medium.
4. Connect the programmer to the actuator.
5. Select the 'Battery change' sub-menu.
6. Press the ENTER key.
7. Select "Yes" if a new battery has been placed.

### 4.5.2.3 Beep



The beep setting is independent of the system software.

1. Open the 'Settings' menu.
2. Open the 'Actuator' menu.
3. Log the master medium in to the actuator.
4. Connect the programmer to the actuator.
5. Choose the 'Beep' sub-menu.
6. Press the ENTER key.

 Buzzer  
○ Off  
● On


7. Select 'On' or 'Off'.
  8. Press the ENTER key.
- ⇒ The selection is saved.

### 4.5.2.4 Light signal



This functions can only be applied for actuators with LED and illumination unit.

1. Open the 'Settings' menu.
2. Open the 'Actuator' menu.
3. Log the master medium in to the actuator.
4. Connect the programmer to the actuator.
5. Choose the 'Illumination unit' sub-menu.
6. Press the ENTER key.

 LED  
○ Off  
● On

7. Select 'On' or 'Off'.
  8. Press the ENTER key.
- ⇒ The selection is saved.

#### 4.5.2.5 Beep for Unauthorised



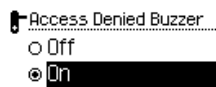
If there is an attempt to gain access using unauthorised user media, the acoustic signal will briefly sound 4 times.

This beeper can be switched off in this menu.



The beep setting is independent of the system software.

1. Open the 'Settings' menu.
2. Open the 'Actuator' menu.
3. Log the master medium in to the actuator.
4. Connect the programmer to the actuator.
5. Select the 'Beep unauthorised' sub-menu.
6. Press the ENTER key.

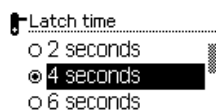


7. Select 'On' or 'Off'.
  8. Press the ENTER key.
- ⇒ The selection is saved.

#### 4.5.2.6 Opening time

The opening time determines the duration for which the actuator remains coupled for actuation.

1. Open the 'Settings' menu.
2. Open the 'Actuator' menu.
3. Log the master medium in to the actuator.
4. Connect the programmer to the actuator.
5. Select the 'Opening time' sub-menu.
6. Press the ENTER key.



7. Select the opening time from the following options: 2, 4, 6, 10, 20, 30, 45 seconds or 1 minute.
  8. Press the ENTER key.
- ⇒ The selection is saved.

#### 4.5.2.7 TouchGo sensitivity

In this menu, you can adjust the sensitivity. The sensitivity can thus be reduced within an interference-free environment, or increased to improve reading properties.



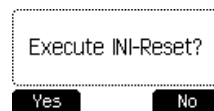
The menu is only displayed on the programmer if TouchGo actuators are recognised.

Procedure:

1. Use the programming cable to connect the programmer and actuator (E110/E310).
  2. Open the 'Settings' menu.
  3. Open the 'Actuator' menu.
  4. Log the master medium in to the actuator.
  5. Choose the 'Actuator/TouchGo selectivity' sub-menu.
  6. Press the ENTER key.
  7. Select a value between 1 and 6.  
**Note:** Value 1 corresponds to the lowest sensitivity. The factory setting is 3.
  8. Press the ENTER key.
- ⇒ The selection is saved.

#### 4.5.2.8 INI reset

1. Open the 'Settings' menu.
2. Open the 'Actuator' menu.
3. Log the master medium in to the actuator.
4. Connect the programmer to the actuator.
5. Choose the 'INI reset' sub-menu.
6. Press the ENTER key.



7. Select "Yes".

⇒ INI reset is executed.

### 4.5.2.9 Wireless

Further information about wireless can be found in the PG wireless manual.

This menu offers the following options:

- **Connect** the component to the network
- **Disconnect** the component from the network
- Display the **status** of the component in a network

#### Procedure for connecting a component to a wireless network

##### Requirements

- Component with E320, 321, 340, 341, 360, 361
- Configured wireless gateway
- Master medium of the site

##### Configuring the wireless menu

1. Open the 'Settings' menu.
2. Open the 'Actuator' menu.
3. Log the master medium in to the actuator.
4. Connect the programmer to the actuator.
5. Select the 'Wireless' sub-menu.
6. Press the ENTER key.

The following options are available in the 'Wireless' menu:

- **Connect** to the network
- **Disconnect** from the network
- Display **status** of the network

#### Procedure for connecting to the network

1. Choose **Connect**.
2. Confirm with ENTER.
  - ⇒ Search for network... (Network is searched for.)
  - ⇒ Gateway (GW) found.
  - ⇒ Connecting to the GW is executed.
  - ⇒ Putting into operation...
  - ⇒ Connected to GW.
- ⇒ The linked actuator is connected to the network.

#### Procedure for disconnecting the network connection

1. Choose **Disconnect**.
2. Confirm with ENTER.
  - ⇒ The network is exited.

#### Procedure for displaying the network status

1. Choose **Status**.
2. Confirm with ENTER.
  - ⇒ The component status is displayed.

The programmer display contains the following:

SW      Software version, e.g. 00.0024  
 NW      Network, e.g. standalone or wireless



INST	Installation code, e.g. OAE3
GW	Gateway, e.g. gateway MAC address
CH	Channel, e.g. channel 25
RSSI	Signal strength, e.g. -51 dB
LQI	Link quality indication, e.g. 255

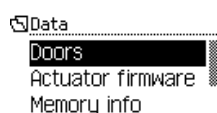
### 4.5.3 Data settings

This menu displays and refreshes data stored on the programmer.

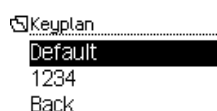


#### 4.5.3.1 Doors

1. Open the 'Data settings' menu.
2. Open the 'Doors' menu.  
**Note:** If no key plans are stored in the 'Key plan' menu, the menu is skipped.



3. Press the ENTER key.
4. Select the key plan.



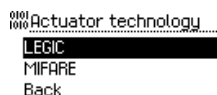
5. Press the ENTER key.

The key plan components are displayed. An info symbol shows if modifications to the plan for this component are saved in the programmer (arrow) or if the component has been completely configured.

#### 4.5.3.2 Actuator firmware

- ✓ The most up-to-date firmware version has been downloaded from the EAC Service Tool [\[► 8.1\]](#).

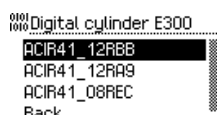
1. Open the 'Data settings' menu.
2. Select the 'Actuator firmware' sub-menu.
3. Press the ENTER button.  
⇒ All variants of the actuator technology stored on the programmer are displayed.
4. Select the technology variant.



5. Press the ENTER button.  
⇒ All available types of actuator are displayed.

6. Select the actuator type.
7. Press the ENTER button.

⇒ The firmware versions available for the actuator type selected are displayed.



8. Search for up-to-date firmware.

### 4.5.3.3 Memory info

1. Open the Data settings menu.
  2. Select the Memory info sub-menu.
  3. Press the ENTER button.
- ⇒ The memory status is displayed.

Memory info	
<b>Size</b>	49788 kB
<b>Used</b>	62 kB
<b>Free</b>	49726 kB

### 4.5.3.4 Delete all

All data is deleted from the programmer in this menu.

1. Open the Data settings menu.
2. Select the Delete all sub-menu.
3. Press the ENTER button.

Delete all data?

Yes

No

4. Select "Yes".

⇒ All data is deleted from the programmer.

### 4.5.3.5 Delete all key plans

All key plans are deleted from the programmer in this menu.

1. Open the 'Data settings' menu.
2. Select the 'Delete all key plans' sub-menu.
3. Press the ENTER button.

Delete all keyplans?

Yes

No

4. Select 'Yes'.

⇒ All key plans are deleted from the programmer.

# 5 Programming

This section describes using the programmer to configure and program components.

Data transfer from the system software is described in the operating manual.

## 5.1 Setting the properties and functions of a component

The following properties of a component can be changed with the programmer:

- The date and time of the clock
- The acoustic signal and the visual display
- The opening time (default 6 s)
- The firmware version
- The INI reset
- Connecting a wireless component with a wireless gateway.

### Main functions

The two main functions that can be performed on components with the Programmer are **export** and **import** of data. Both functions are performed with the Programmer via the radio interface (NFC) or with the programming cable.

## 5.2 System level

The components are dispatched to the customer with a preset system level. Depending on the system level that is set, the component has a certain scope of functions. The host systems provide the parameter settings for the system level assigned to them. It is then not possible to set parameters for a component with the incorrect system level.

### Overview

Overview of the host systems used and the matched system level.

System	System level	Definition on the Programmer	
		Firmware from 1.30 onwards	
evolo smart	SL1	Residential	1
Matrix One/exivo/KEM	SL2	Indirect	2
Matrix Pro/Exos/EACM	SL3	Professional	3
OSS (3rd Party + dormakaba host)	SL4	3rd Party	4

### Determining the system level status and "BLE ready".

On the programmer, select the 'Actuator info' menu and read the information from the component.

Requirements:

- Programmer 1460
- Master medium of the component

Procedure:

1. Log in to the component with the master medium.
2. Select the 'Read actuator' menu.
3. Select the menu option 'Info'.
4. Connect the Programmer with the component.

Determine the firmware variant (E3xx) and version.

The system level is shown under SL.

Under BLE, a check mark shows that BLE is active.

The system level is supported by the components and host systems from the following versions.



The component can only be configured if the system level of the component and the configuration file are the same.

The component can be configured if the system level of the component is higher than the system level of the host system (Applies to SL1 to SL3. Does not apply to SL4).



A firmware update is also possible if the system level is incorrect.

Host system	from version	Remarks
Exos	4.0.80	
KEM	5.3	
Matrix	3.4	
evolo smart	2.0	
exivo		
EACM	7.6	
B-COMM	3.18.0	
Programmer 1460	1.26	The Programmer compares the system level of the parameter file with the system level of the component.
Component (firmware version)	42.28	In the factory, the system level is set according to the order.

#### Update to a higher system level

The components are dispatched from the factory with a certain system level. If certain functions are to be used, which are not released in that system level, then the system level of the component has to be updated as required. Update media can be obtained for this purpose.

The following media for updates/additional licences

Update	SL1 to SL2
Update	SL2 to SL3
Update	SL1 to SL3
Licensing	Mobile Access via BLE



The update procedure is described in the technical manual of the component.



To save time and money, order new components in the matching combination and configuration.

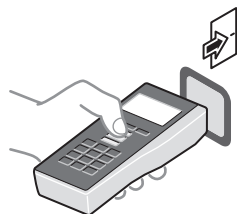
## 5.3 Export to components

During the export, the configuration data is transferred from the programmer to the components.



For an export, configuration data for the key plans must first be transferred from the system software to the programmer.

### 5.3.1 Export to evolo components



Select the configuration data from the list in the programmer and export them to the components.

- ✓ Valid master medium available
- 1. Press the 'Export' menu key.
  - ⇒ The 'Export' menu opens.
- 2. Log the master in to the component.



Activate the electronics on cabinet lock 21 10 by pressing briefly on the door.

- 3. Choose a key plan.
- 4. Press the ENTER key.
- 5. Choose an actuator.
- 6. Press the ENTER key.

### 5.3.2 Updating evolo components

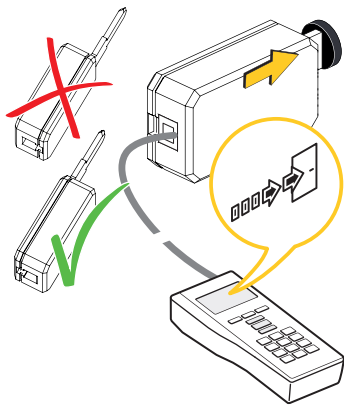
- ✓ Valid master medium available
- 1. Press the 'Export' menu key.
  - ⇒ The 'Export' menu opens.
- 2. Log the master in to the component.
  - ⇒ Update the configuration.



Activate the electronics on cabinet lock 21 10 by pressing briefly on the door.

- 3. Choose 'Next'.
  - ⇒ All data are exported to the component.
- ⇒ The component configuration is updated and confirmed.

### 5.3.3 Export to mechatronics cylinders



Select the configuration data from the list in the programmer and export it to the mechatronic cylinder.

- ✓ Valid master medium available
  - ✓ Programming adapter and programming cable available
1. Press the 'Export' menu key.
    - ⇒ The 'Export' menu opens.
  2. Insert the master into the mechatronic cylinder and remove it again.
  3. Insert the programming adapter into the mechatronic cylinder.
  4. Choose a key plan.
  5. Press the ENTER key.
  6. Choose an actuator.
  7. Press the ENTER key.

### 5.3.4 Updating a mechatronics cylinder

- ✓ Valid master medium available
  - ✓ Programming adapter and programming cable available
1. Press the 'Export' menu key.
    - ⇒ The 'Export' menu opens.
  2. Insert the master into the mechatronic cylinder and remove it again.
  3. Insert the programming adapter into the mechatronic cylinder.
    - ⇒ Update the configuration.
  4. Choose 'Next'.
    - ⇒ All data are exported to the mechatronic cylinder.
  - ⇒ The component configuration is updated and confirmed.

## 5.4 Import from components



Activate the electronics on cabinet lock 21 10 by pressing briefly on the door.

When importing, the configuration data is transferred from the components to the Programmer.

The following data is available for selection:

- Information (status data),
- Traceback,
- Configuration,
- Diagnosis data.



Existing configuration data of components is overwritten following confirmation on the programmer.



The traceback and the configuration must be transferred to the system software for evaluation with the Programmer.

### 5.4.1 Info

In this menu, information about the components is displayed.

Log in to the component using a master medium in order to display all available information for this component. Basic information is always displayed (\*).

Type*	Actuator type
Name*	Name of the actuator (if input, otherwise serial number of the actuator)
Tech*	technology
Bat*	Battery status
Clock*	Date and time
SW*	Firmware
S. No.*	Serial number
L OS*	LEGIC operating system
SL	System level
BLE	Mobile Access is available and activated/deactivated
TGO	TouchGo
UID	UID: Unique number
NW*	Wireless
BIND*	Wireless connection

### 5.4.2 Read traceback

In this menu, the traceback can be read from the components and displayed with the system software.

The Actuator Traceback is a log file in which all events (such as component access processes and states) are entered and stored. Up to 2000 events are recorded in an actuator's memory (if there are more events, the oldest entry is overwritten by the newest entry). This allows all accesses to an actuator to be tracked at any time. The programmer 1460 enables a traceback to be read provided the function has not been disabled in the system software.

The following events and states are saved for example:

- Access with authorisation
- Unauthorised access (due to lack of authorisation or validation)
- Unauthorised access due to incorrect time window
- Set clock
- Programming
- Battery low
- System test

Data transfer from programmer 1460 is described in the system software operating manual.

### 5.4.3 Diagnostic details

The diagnosis data aid the support team in error analysis. In this menu, diagnosis data are read from the components.



The data can only be read if programmer and component are connected using the programming cable.

---



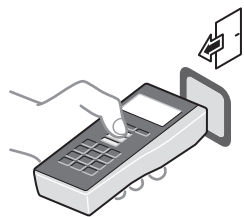
Before reading the diagnosis data, delete all data on the programmer.

- This helps the support team in carrying out an efficient data analysis.
- 

1. Use the programming cable to connect the programmer 1460 and the actuator.
2. Press the 'Import' menu key.
  - ⇒ The 'Import' menu opens.
3. Log the master in to the component.
4. Choose the 'Diagnosis data' menu.
5. Press the ENTER key.
  - ⇒ The contents are read.
6. Connect the programmer to the PC.
7. Start the EAC Service Tool [\[► 8.1\]](#).
8. Choose 'Programmer memory image'.
  - ⇒ The wizard starts.
9. Follow the wizard's instructions.
10. Select the filename and storage location.
11. Choose 'Next'.
  - ⇒ The memory image is created.
12. Confirm with 'Finish'.
13. Close the wizard.
  - ⇒ Send the memory image you have created to the support team.



### 5.4.4 Import from digital cylinder, c-lever and reader



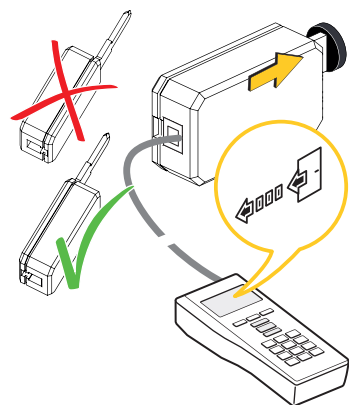
- ✓ Valid master medium available
- 1. Press the 'Import' menu key.
  - ⇒ The 'Import' menu opens.
- 2. Log the master in to the component.



Activate the electronics on cabinet lock 21 10 by pressing briefly on the door.

- 3. Choose a menu, e.g. 'Configuration'.
- 4. Press the ENTER key.
  - ⇒ The component configuration is read and confirmed.

### 5.4.5 Import from mechatronics cylinder



- ✓ Valid master medium available
- ✓ Programming adapter and programming cable available
- 1. Press the 'Import' menu key.
  - ⇒ The 'Import' menu opens.
- 2. Insert the master into the mechatronic cylinder and remove it again.
- 3. Insert the programming adapter into the mechatronic cylinder.
- 4. Choose a menu, e.g. 'Configuration'.
- 5. Press the ENTER key.
  - ⇒ The component configuration is read and confirmed.

## 5.4.6 Info for TouchGo components (signal strength)



The menu is only displayed on the programmer if TouchGo actuators are recognised.

1. Press the Import menu button.  
⇒ The Import menu opens.
2. Select the Info menu.
3. Press the ENTER button.
4. Connect the programmer to the TouchGo actuator.
5. Navigate to the UID, SNR and RSSI points in the menu using the DOWN button.
6. Press the middle menu button and at the same time touch the door handle.  
⇒ The measurement starts.

### 5.4.6.1 Analysis of measurements



During the measurement of signal strength, a TouchGo medium must be carried in the (front) trouser pocket, and the door handle must be touched with a hand to close the signal path. Remove the USB cable during the measurement.

Sym-  
bols

Causes



Unable to receive a signal.

- Major interference
- The transponder is defective or not available
- The door handle is not being touched, or the installation is deficient



Increased interference within the environment.

- Increased level of interference within the environment
- The transponder is not being carried correctly



A weak signal is being received.

- Deficient installation
- The transponder is not being carried correctly or its batteries are nearing the end of their useful life
- Possible restrictions due to building



The use of TouchGo is possible without restriction.

#### Explanation of the values:

- <sup>5</sup> The SNR value specifies the reception quality of the TouchGo transponder signal. A sufficiently high signal quality is essential for TouchGo to function without restriction. The RSSI value displays the total signal strength received. High RSSI values indicate sources of interference in the immediate vicinity and reduce the functionality of TouchGo.

### 5.4.7 Configuration

Configuration data is imported from an actuator to the programmer.



Existing configuration data of components is overwritten following confirmation on the programmer.



Activate the electronics on cabinet lock 21 10 by pressing briefly on the door.

1. Press the Import menu button.  
⇒ The Import menu opens.
2. Log the master into the component.
3. Select the Configuration menu.
4. Press the ENTER button.  
⇒ The configuration of the actuator is read and confirmed.

## 5.5 Manual settings

Use the programmer and the 'Settings'/'Actuators' [▶ 4.5.2](#) menu to configure basic settings on the actuators.

## 5.6 Firmware update of components

### 5.6.1 Firmware update of V4 actuators



The Programmer 1460 is required for the firmware update V4.  
Before the firmware of actuators can be updated, the firmware version of the Programmer should be checked and if necessary, the firmware of the Programmer must be updated.



The firmware update of OSS-SO is carried out like the firmware update of V4.



If there is already a configuration stored in the Programmer for this component, it can be overwritten by the configuration from the component.

A connection of the component to a wireless gateway must be manually restored after the firmware update.

#### Requirements

- The new firmware is saved on the Programmer.
- The Programmer's battery is charged. The update procedure can take a few minutes.
- The programming cable is available.
- A valid master medium available.

#### configured components

If the firmware of a component that is configured is to be updated:

1. Connect the Programmer to the component using the programming cable.
2. Log in to the component with the master.
3. On the Programmer, select the 'Firmware update' menu.
4. Select the component and the firmware.  
⇒ All the firmware versions for the connected component are displayed.

5. If there is a configuration for the component present on the Programmer: Select whether the configuration on the Programmer should be overwritten.
6. If there is a traceback present on the component:  
Select whether the traceback should be read.  
Select whether a traceback of this component stored on the Programmer should be overwritten.
7. The component is initialized for LEGIC:  
Confirm overwriting of the initialization of the component.
8. The component is connected to a wireless gateway:  
Confirm ending the connection to the gateway. The component has to be connected afresh after the update.
  - ⇒ The configuration is saved on the Programmer.
  - ⇒ An INI reset is performed.
  - ⇒ The selected firmware is stored in the component.
  - ⇒ The component is restarted with the new firmware.
9. Upon request, make the master available again.
  - ⇒ The configuration is transferred back to the component.

Check for success with a valid user medium.

#### Components not configured

If the firmware of a component that is not configured is to be updated:

1. Connect the Programmer to the component using the programming cable.
2. On the Programmer, select the 'Firmware update' menu.
  - ⇒ All the firmware versions for the connected component are displayed.
3. Select the firmware.
  - ⇒ The update process is started.
  - ⇒ The selected firmware is stored in the component.
  - ⇒ The component is restarted with the new firmware.
  - ⇒ The firmware update is completed.

## 5.6.2 Crossgrade for LEGIC advant components

An upgrade to E300 (V4) is recommended for elologic U line (U300) or N line (N300) standalone components.

### 5.6.2.1 V3 upgrade to E300 (V4)

The upgrade can only be carried out on evolo standalone actuators.



evolo standalone actuators (MRD) can be started directly in the bootloader by short-circuiting the INI reset contacts (provided no master is programmed before).

1. **Starting actuator in the bootloader.**
  - c-lever:**  
Short-circuit the INI reset contacts on the actuator (10 s).
  - c-lever compact or digital cylinder:**
    - a) Log in with the authorised medium before the INI reset.
    - b) Use the tweezers to short-circuit the INI reset contacts on the actuator (approx. 10 s.)
  - Remote reader or compact reader:**  
**Note:** No INI reset contacts available.  
**Note:** Always interrupt the energy supply before switching.  
Move DIP switches 5 and 6 to 'ON'.  
After switching, restore the energy supply.
    - ⇒ The actuator flashes.

- ⇒ The actuator is in the bootloader.
- 2. Connect the programmer 1460 and the actuator with the programming cable.
  - ⇒ All technology variants of the actuator firmware which are on the programmer are displayed.
- 3. Select the technology variant and confirm with ENTER.
  - ⇒ All actuator types (firmware) on the programmer are displayed.
- 4. Select the actuator type and confirm with ENTER.
  - ⇒ The actuator firmware versions available for the actuator type selected are displayed.
- 5. Select Firmware version and confirm with ENTER.
  - ⇒ The upgrade is performed.
- 6. After the upgrade from remote reader or compact reader, move DIP switches 5 and 6 to OFF.
 

**Note:** Always interrupt the energy supply before switching and restore it afterwards.

### 5.6.2.2 Remote and compact reader crossgrade

The crossgrade variants for the readers are shown in the following table. The products can be used in various function types and system software. The functions can differ in each function type. The functional type is based on the firmware used – as an online reader in the Access Manager functional type (Kaba exos, B-COMM), as an online reader in the Subterminal functional type (B-COMM) or as a standalone reader in the Standalone functional type (Kaba exos, KEM).

Technology	Actuators	Crossgrade between the components				
		V4	Online reader	Subterminal	V3 <sup>1,3</sup>	cDML
LEGIC						
	Remote reader	✓	✓	✓	✓	—
	Compact reader	✓	✓	✓	✓	✓
	c-lever, c-lever compact, digital cylinder	✓	—	—	✓	—
MIFARE						
	Remote reader	✓	✓	✓	—	—
	Compact reader	✓	✓	✓	—	—
	<sup>2</sup> c-lever, c-lever compact, digital cylinder	—	—	—	—	—

**Key:**

- <sup>1</sup> Before the upgrade to V3, select the line (provided the firmware supports what was previously on the actuator).
- <sup>2</sup> Crossgrade not possible.
- <sup>3</sup> After the downgrade, only the programmer 1364 can be used for programming.

### 5.6.2.3 Overview of INI reset variants for components

The INI reset variants and the differences for E300 (V4) and V3 are shown in the following table.

Some components have INI reset contacts. Short-circuit these contacts with a pair of electrically conductive tweezers for about 3 seconds, and an INI reset is executed.

Component	Admin master	Programmer 1460 <sup>1;4</sup>	Tweezers	DIP switch
c-lever	✓	✓	✓	—
c-lever pro c-lever air	✓	✓	✓	—
c-lever pro TouchGo	✓	—	—	—
c-lever compact K5	✓	✓	✓ <sub>2</sub>	—
c-lever compact K6	✓	✓	—	—
Digital cylinder	✓	✓	✓ <sub>2</sub>	—
Mechatronic cylinder Forend	✓	✓	— <sup>5</sup>	—
Mechatronic cylinder Surface-fixed/ Compact	✓	✓	✓ <sub>2</sub>	—
Remote reader	✓	✓	—	✓ <sub>3</sub>
Compact reader	✓	✓	—	✓ <sub>3</sub>
Cabinet lock 21 10	✓	✓ <sub>2</sub>	✓	—

#### Legend:

- <sup>1</sup> Hold the master medium in front of it.
- <sup>2</sup> Hold the master medium or authorised user medium in front of it (difference: before the INI reset for V4 and during the INI reset for V3).
- <sup>3</sup> Set DIP switch 6 to ON.
- <sup>4</sup> Not for V3 components
- <sup>5</sup> Reset points in the forend module

Reset information for other components is described in the manuals of the components.



Always perform an INI reset in accordance with the device manual.

### 5.6.2.4 Overview of bootloader variants

The bootloader variants and the differences for E300 (V4) and V3 are shown in the following table. Some actuators have INI reset contacts. Short-circuit these contacts for about 10 seconds using a pair of electrically conductive tweezers. For some actuators (see table), you also need hold up a master medium or authorised user medium to perform an INI reset.

Actuators			Tweezers	DIP switch
c-lever			✓	—
c-lever compact			✓ <sub>5</sub>	—
digital cylinder			✓ <sub>5</sub>	—
Mechatronic cylinder			✓ <sub>5</sub>	—
Remote reader			— <sup>7</sup>	✓ <sub>6</sub>
compact reader			— <sup>7</sup>	✓ <sub>6</sub>

**Legend:**

- <sup>5</sup> Hold the master medium or authorised user medium in front of it (difference: For V4, before the INI reset or for V3, during the INI reset.)
- <sup>6</sup> Set DIP switch 5+6 to ON.
- <sup>7</sup> Not for online actuators

Reset information for other actuators can be found in the corresponding manuals.



Always perform the INI reset as described in the device manual.

# 6 System connection

This section describes data transfer between the system software and the programmer.

## 6.1 Driver installation



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Administrator rights are required for installation.

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This section describes the installation of drivers.

Log in to the dormakaba website.

Direct link to protected area: <https://cms.dxp.dormakaba.net/blueprint/servlet/extranet-emea-de/support/electronic-acces-data/software-downloads/evolo-programmier-tool-582698>

Content of installation package:

- Programmer 1460 USB driver
- dormakaba EAC Service Tool
- documentation

### Requirements

Hardware requirements:

- Windows PC
- Processor with 1.4 GHz or higher (2.4 GHz recommended)
- Main memory 1 GB (2 GB recommended)
- Hard drive memory min. 50 MB, including all additional components
- Interface: 1 x USB 2.0

Supported operating systems:

- Windows 10 (32/64 bit)
- Windows 8 or 8.1
- Windows 7
- Windows Server 2012
- Windows Server 2008
- Windows Server 2008 R2

### Procedure

1. Download the installation package from the dormakaba website.
2. Unpack the installation package.
3. Open the installation package.
  - ⇒ Programmer file path: `..\evolo-toolchain\Programmer 1460\Driver`
  - ⇒ EAC Service Tool file path: `..\evolo-toolchain\EAC Service Tool`
4. Programmer: Select and launch the **Install** file.  
EAC Service Tool: Select and launch the **EvoloServiceToolSetup** file.
5. Follow the instructions of the installation programme.
6. After being prompted, connect the programmer to the PC using the USB cable.



## 6.2 Downloading data from the system software

This section describes how actuator data and key plans are downloaded from the system software into the programmer.

After installation of the drivers, the programmer can be used with the desired system software. The installation and operation of the system software are described in the corresponding operating manual.

Execute the following steps:

1. Switch on the PC.
2. Start the system software.
3. Connect the programmer to the PC using the USB cable.
4. Transfer the key plans and the associated actuator data from the system software to the programmer. The system software procedure is described in the system software manual.
5. Search for the actuators using the programmer.
6. For how to transfer the data to the actuators see Chapter [▶ 5.3](#)

## 6.3 Set clock

### **Time on programmer**

To use the automatic clock setting on the programmer, execute the following steps:

1. Switch on the PC.
  2. Start the system software.
  3. Connect the programmer to the PC.
- ⇒ The date and time of the connected programmer are automatically adjusted after the system software has been started.

### **Time on actuators**

For how to adjust the time on the actuators, see Chapter [▶ 4.5.2.1](#) .

# 7 Maintenance

This section describes product maintenance.

## 7.1 Battery charge status

The battery charge status is checked by the programmer when it is switched on and during operation.

## 7.2 Charging the battery

The programmer shows a dialogue on the display when the charge status is too low.

There are two ways to charge the battery.

It can be charged using the USB interface with a mains adapter, or by using a USB cable connected to the PC.



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The mains adapter is recommended for a complete charge cycle.

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### **Charging the battery using the mains adapter**

1. Connect the programmer to the mains adapter using the USB cable.
2. Plug the mains adapter into a socket.
3. The programmer switches on automatically.
4. The programmer charges the battery by itself when it is connected to the mains adapter.

### **Charging the battery using the PC**

1. Switch on the PC.
2. Connect the programmer to the PC using the USB cable.
3. The programmer switches on automatically.
4. The programmer charges the battery by itself when it is connected to the PC.

## 7.3 Menu structure

<b>HOME</b> (main menu)			
<b>Writing to actuators</b>	<b>Read from actuators</b>	<b>Settings</b>	
<b>Export</b>	<b>Information</b>	<b>Actuators</b>	Setting the clock
	Traceback		Battery change
	Configuration		Beep
	Diagnosis data		Illumination unit
	Back		Beep unauthorized
			Opening times
			TouchGo selectivity
			INI reset
			Wireless
			Back
		<b>Data</b>	Doors
			Actuator firmware
			Memory information
			Delete all
			Delete locking plans
			Back
		<b>Programmer</b>	Language
			Contrast
			Volume
			Date/Time
			Lighting
			Key sound
			Turn-off time
			Name
			Information
			PIN protection
			Comfort update
			Back
		<b>Firmware Update</b>	Firmware versions
			Back
		<b>Emergency power supply</b>	
		Back	

## 8 Service

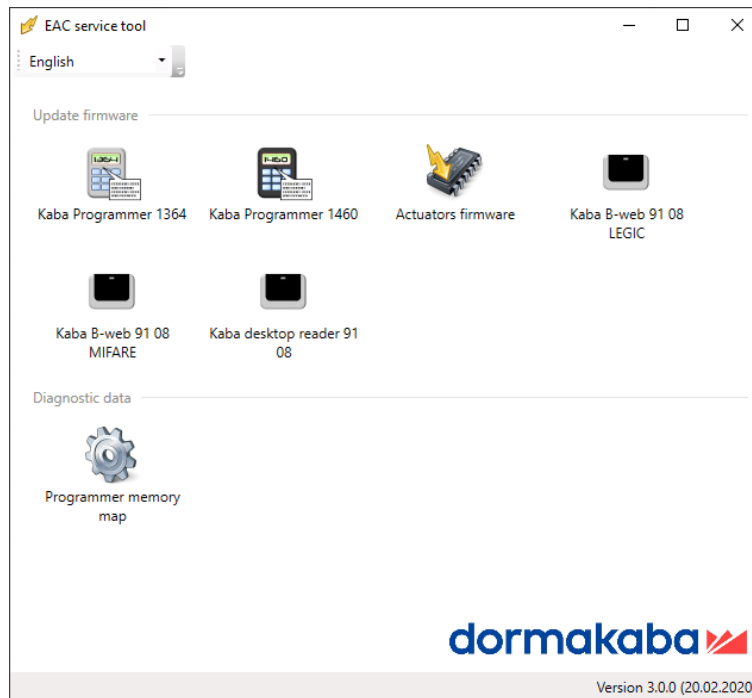
### 8.1 EAC Service Tool

The EAC Service Tool is an auxiliary program for updating firmware data and for diagnoses.



The EAC Service Tool can also be started directly (the system software must not have already been started up).

Path: Start/All Programs/Kaba/Kaba EAC Service Tool.



<b>Programmer 1364</b>	Wizard for updating the programmer firmware.
<b>Programmer 1460</b>	Wizard for updating the programmer firmware.
<b>Actuators firmware</b>	Wizard for transferring the firmware for the components to the programmer.
<b>Desktop reader 91 08 LEGIC/MIFARE/MRD</b>	Wizard for updating the desktop reader firmware for the selected technology.
<b>Programmer 1460 memory image</b>	Wizard for creating a ZIP file with the memory content of the programmer. A tool for problem-solving in support cases.
<b>Actuator memory image (V4)</b>	Wizard for creating a ZIP file with the memory content of the component. A tool for problem-solving in support cases.



The firmware must be downloaded from the internet/extranet onto a local hard disk before updating.

### 8.1.1 Programmer 1364 – updating firmware



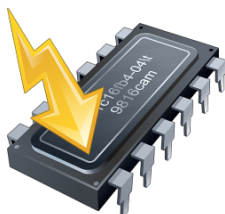
1. Start the 'EAC Service Tool' auxiliary program.
2. Connect programmer 1364 to the computer.
3. Click the 'Programmer 1364' button.
4. Follow the Wizard's instructions.
5. Select the current firmware file and confirm by selecting 'Next'.  
⇒ The programmer is updated.
6. Click on the 'Finish' button.

### 8.1.2 Programmer 1460 – updating firmware

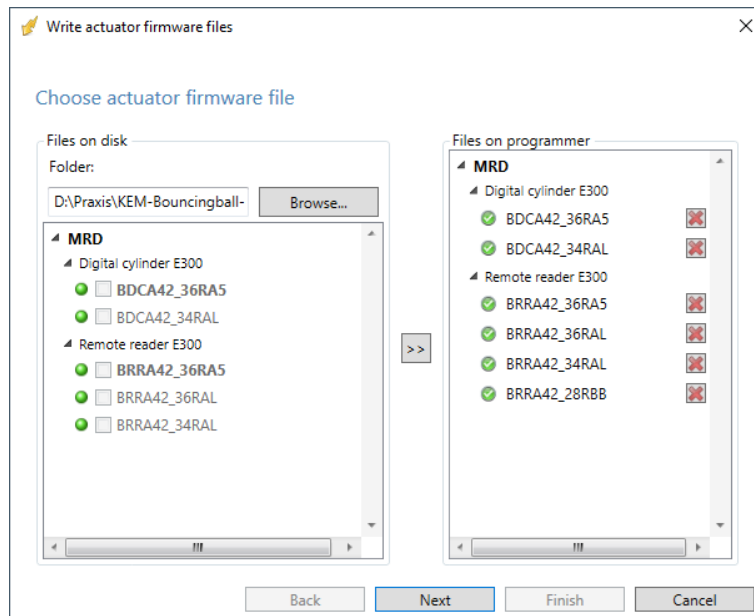


1. Start the 'EAC Service Tool' auxiliary program.
2. Connect the programmer to the computer.
3. Click the 'Programmer 1460' button.
4. Follow the Wizard's instructions.
5. Select the current firmware file and confirm by selecting 'Next'.  
⇒ The programmer is updated.
6. Click on the 'Finish' button.

### 8.1.3 Actuators – updating firmware



1. Start the 'EAC Service Tool' auxiliary program.
2. Connect the programmer to the computer.
3. Click on the 'Actuator firmware' button.
4. Follow the wizard's instructions.
5. Select the current firmware file.  
**Note:** Files which are displayed as inactive are already on the programmer. The current files are marked with a green thumbtack.
6. Transfer the selected files to the programmer page using the 'arrow' button (in the middle).
7. Click on the 'Next' button.  
⇒ The selected firmware files are transferred to the programmer.



Multiple firmware files can also be copied directly to the "Files on the programmer" folder from the explorer.

8. Click on the 'Finish' button.

⇒ The firmware files are now on the programmer and can be used for a firmware update. The firmware update is described in the user manual for the programmer 1460.

### 8.1.4 Updating desktop reader 91 08



1. Start the 'EAC Service Tool' auxiliary program.
2. Connect the desktop reader to the computer.
3. Press the 'Desktop reader 91 08 <selected technology>' button.
4. Follow the wizard's instructions.
5. Select the current firmware file.
6. Click on the 'Next' button.
 

⇒ The desktop reader is updated.
7. Click on the 'Finish' button.

## 8.1.5 Creating a programmer memory image



The memory image can only be created with the Programmer 1460.

1. Start the 'EAC Service Tool' auxiliary program.
2. Connect the programmer to the computer.
3. Press the 'Programmer memory image' button.
4. Follow the Wizard's instructions.
5. Select the file name and storage location.
6. Click on the 'Next' button.
  - ⇒ The memory map is created.
7. Click on the 'Finish' button.

## 8.2 Emergency supply



The emergency supply is only possible after a "Battery flat" signal.



Emergency opening with the programmer is not possible for the digital cylinder or c-lever compact.

If all the warnings are ignored and the batteries are now completely flat, doors can no longer be opened from the outside with the components. All functions are blocked. Only "Batteries flat" is indicated (acoustic signal three seconds in duration).

The following actuators can still be opened with the programmer and emergency supply:

- c-lever
- TouchGo.

Behaviour of the actuators whilst the emergency supply is applied:

- Actuators remain open
- Entry "Emergency supply event" written to traceback
- TimePro is not evaluated.



After the emergency power is applied, always replace the batteries and set the time accurately so access authorisations with time settings or CardLink remain usable.

1. Open the Settings menu.
2. Select the Emergency supply sub-menu.
3. Press the ENTER button.
4. Connect the programming cable.
5. Confirm with ENTER.
  - ⇒ The programmer action is displayed.
6. Hold up an authorised medium.

7. Replace the batteries.
8. Check the function of the component.



## 9 Error messages/troubleshooting

### Wireless connection set-up/disconnection

Message	Description	Solution
Join failed	There has been an error in the join mechanism	Try again
Rejected by GW	The join with the GW is rejected by the GW. This may be the case when the FW version is incompatible or the installation code is missing.	<ul style="list-style-type: none"> <li>Reconcile the FW</li> <li>Check the installation code</li> </ul>
No network	No GW reachable or GW is not prepared for join. At the ZigBee level, there is no answer with an "open for join" upon a beacon request.	Check: <ul style="list-style-type: none"> <li>Gateway power supply</li> <li>Gateway settings</li> <li>Signal strength to/from gateway</li> </ul>
Communication error	If the PD is unplugged or the PD wireless connection is lost, a communication error and then 'Connection disconnected' is displayed.	Try again
Connection disconnected		
Disconnection failed	Disconnection has failed in the ZigBee controller	Try again

# 10 Disposal



The device is indicated with the adjacent symbol which means prohibition of its disposal as household waste.

The device's integral components must be separated before they are taken for recycling or disposal. Old and used devices contain valuable recyclable materials which must be recycled. Toxic and hazardous components may cause long-term damage to the environment if you dispose of them incorrectly.

The facility operators are obliged to return electrical and electronic devices to their manufacturer, point of purchase or designated public collection points at the end of their service life.

Disposal in Germany:

dormakaba EAD GmbH will take responsibility for correct disposal of supplied goods once they are no longer in use as per statutory regulations (ElektroG in Germany). The owner of the used electrical appliance bears any costs incurred for transport to the manufacturer's plant.

Disposal in Switzerland:

The device is to be returned to an electrical appliance return point as per the Regulation on Returning, Taking Back and Disposing of Electrical and Electronic Equipment (VREG).

In the EU, electrical appliances should be taken for disposal in accordance with the country's respective disposal and environmental guidelines.

## **Deletion of personal data**

The owner/operator is responsible for deleting their personal data.



## **Dispose of packaging in an environmentally responsible fashion.**

The packaging materials are recyclable. Do not dispose of packaging in the household waste; take it to a recycling point instead.

## Notes

[illegible]



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