

KeContact

P40 / P40 Pro
Charging Station
Operating instructions V 1.00

Translation of the original instructions



Automation by innovation.

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1 Introduction

This manual is valid for KeContact P40.

The pictured devices used in this manual are visual examples. The figures and explanations contained in this manual refer to a typical device design. The devices used by you may differ in their appearance.

1.1 Representation of safety instructions

At various points in this manual, you will see notes and precautionary warnings regarding possible hazards. The symbols used have the following meaning:



DANGER!

indicates an imminently hazardous situation, which will result in death or serious bodily injury if the corresponding precautions are not taken.



WARNING!

indicates a potentially hazardous situation, which can result in death or serious bodily injury if the corresponding precautions are not taken.



CAUTION!

means that if the corresponding safety measures are not taken, a potentially hazardous situation can occur that may result in slight bodily injury.

Caution

means that damage to property can occur if the corresponding safety measures are not taken.



ESD

This symbol reminds you of the possible consequences of touching electrostatically sensitive components.

Information

Identifies practical tips and useful information. No information that warns about potentially dangerous or harmful functions is contained.

1.2 Purpose of the document

This document contains information for people who want to operate a Ke-Contact P40 charging station.

1.3 Intended use

The charging station is intended for charging electrically powered vehicles (e.g. e-cars). The connection of other devices (such as power tools) is not allowed.

Vehicle charging which requires ventilation is not supported.

KeContact P40 has been developed, manufactured, tested and documented in accordance with the appropriate safety standards. Therefore, provided that the instructions and safety precautions relating to the intended use are observed, the products do not pose any danger to the health of personnel or a risk of damage to other property or equipment under normal circumstances.

There is a duty to supervise children while using the charging station or plugging/unplugging the charging cable, since minors, and especially small children, cannot adequately assess possible risks. Parents are responsible for their children!

1.4 Warranty

Only general maintenance work that is expressly permitted by KEBA may be performed. Any other tampering to the device will result in a loss of the warranty claim.

A device with a broken manufacturer's seal or removed lead seal may no longer be put into operation. The necessary steps must be taken for having the charging station replaced or repaired by a specialist dealer or service partner.

1.5 Notes on this document

The manuals are part of the product and must be downloaded, read and understood before initial use.

The current manuals can be downloaded directly from our homepage:
www.keba.com/emobility-downloads

The downloaded manuals must be kept for the entire life of the product. If you require the information in another language, please contact your customer advisor.

Contents of the document

- Description of the charging station
- Operating behavior of the charging station

- Operation of the charging station

Mention of names

The Bluetooth® word mark and logos are registered trademarks owned by Bluetooth SIG, Inc. and any use of such marks by KEBA is under license. Other trademarks and trade names are those of their respective owners.

2 Safety notes



WARNING!

Risk of electric shock and fire hazard!

- All work on the charging station that requires opening the protective cover must be performed by correctly trained, qualified and authorized electricians¹⁾ who are fully responsible for compliance with existing standards, tests and installation regulations.
 - An upstream main switch must be used to interrupt the power supply.
 - The charging station may only be installed and operated in a perfect condition. A damaged charging station must be promptly taken out of service and repaired or replaced by a qualified and authorized electrician¹⁾.
 - Repairs may only be made to the charging station by trained electricians¹⁾ with replacement parts approved by the manufacturer and checked before installation.
 - No unauthorized conversion work or modifications may be made to the charging station.
 - The charging station may only be stored and transported with the protective cover closed and in the original packaging.
 - Markings must not be removed from the charging station or made illegible.
 - The charging station and charging cable must be checked regularly to ensure that they are in proper condition. Never use faulty, worn-out or dirty charging plugs or charging cables.
 - Using cable extension sets or adapters of any kind is prohibited.
-

¹⁾ Persons who, due to their special training, expertise and experience as well as knowledge of current standards, are able to assess the work performed and the possible hazards.

Caution**Possible damage to property!**

- When the charging cable is not in use, always plug it into the plug holder or use a suitable plug protective cover.
 - Pull the charging cable out of the plug holder only by the plug and not by the cable.
 - Do not place or hang any objects on the charging station or plug holder and do not use these as climbing aids.
 - Clean the charging station using only a soft, damp cloth, with a little detergent as needed.
-

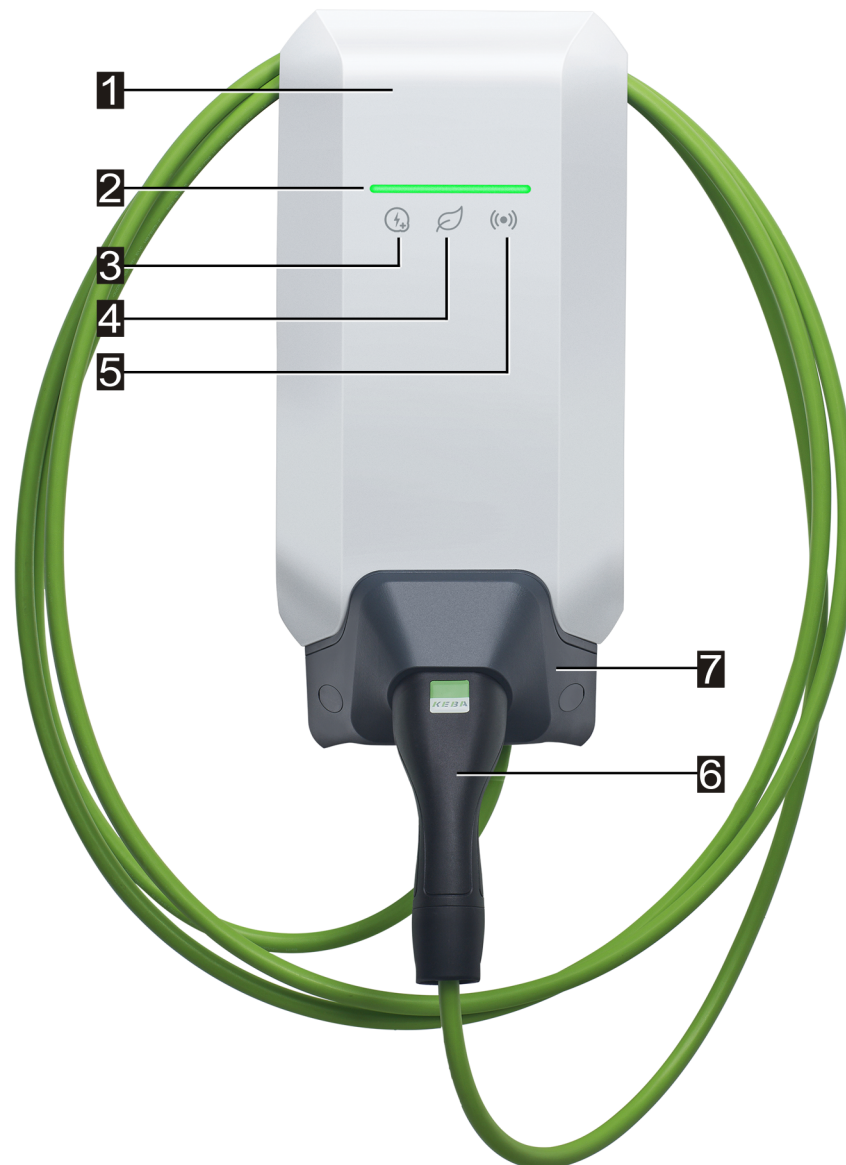
Not observing the safety notes can result in risk of death, injuries and damage to the device!

The device manufacturer does not accept any liability for claims that result from non-compliance with the safety notes!

3 Description of the charging station

3.1 Front view

KeContact P40



1 ... Housing cover	2 ... LED bar (status display)
3 ... Touch button	4 ... Smart charging symbol
5 ... RFID reader	6 ... Charging plug with charging cable
7 ... Plug holder	

Depending on the design of the charging station, the colors or functions may differ from the illustration.

Plug holder

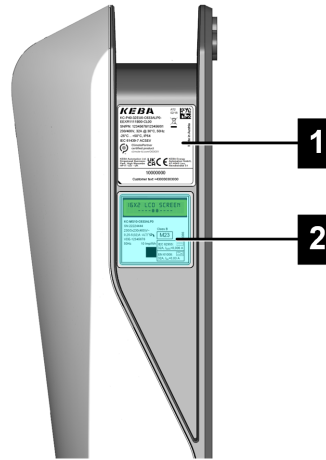


The plug holder for the charging cable can be installed directly beneath or separately from the charging station.

Information

If the plug holder for the charging cable is installed directly beneath the charging station, it can be used to secure the housing cover.

3.2 Type plates



1 ... Type plate of the charging station	2 ... Type plate of the installed KeContact MS10 module
---	--

The two type plates are located on the right side of the charging station.

Information

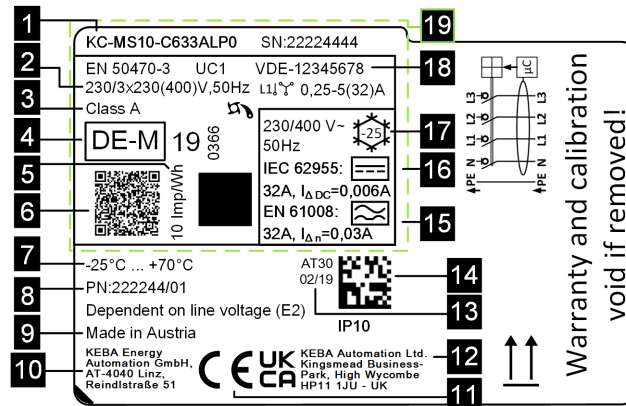
The type plates shown below represent the maximum characteristics. Type plates may contain less data depending on the device variant.

Type plate of the charging station



1 ... Manufacturer	2 ... Product key
3 ... Serial number / Material number	4 ... Electrical data
5 ... ClimatePartner certification	6 ... CE marking
7 ... Manufacturer address	8 ... Operator information
9 ... UKCA marking/address	10 ... Country of manufacture
11 ... Production location and date	12 ... Serial number as a QR code

Type plate of the KeContact MS10



1 ... Product key / Serial number	2 ... Electrical data
3 ... Accuracy class	4 ... Marking of the approval
5 ... Meter constant	6 ... Public key information
7 ... Operating temperature range	8 ... Material number
9 ... Country of manufacture	10 ... Manufacturer address
11 ... CE mark	12 ... UKCA marking/address
13 ... Production location and date	14 ... Serial number as a QR code
15 ... Electrical data of RCD	16 ... Electrical data of RDC
17 ... Electrical data of RCD+RDC	18 ... Type examination number
19 ... Visible part of the type plate	

3.3 Product key (variants of the charging station)

KC-P40-32 EU 0 - C 6 3 3 A L P 0 - L S 1 R 1 1 1 B L 0 - XXXX
 I II III IV V VI VII VIII IX X XI XII XIII XIV XV XVI XVII XVIII XIX XX XXI XXII XXIII XXIV

Form designation system (example)	
<i>I</i>	Device series KC-P40 ...Device generation
<i>II</i>	Nominal current 16 ...16 A 32 ...32 A
<i>III</i>	Region EU ...Europe IEC GB ...Great Britain
<i>IV</i>	Future options 0 ...none
<i>V</i>	Connector C ...Type 2 cable P ...Type 2 cable with protective cap N ...Cable variant, no cable attached
<i>VI</i>	Cable 6 ...Cable length in meter [m] (0 = no cable)
<i>VII</i>	Phases 1 ...1 phase 3 ...3 phases S ...3 phases→1 phase (phase switching)
<i>VIII</i>	Maximum Charging Current 1 ...16 A 3 ...32 A

<i>IX</i>	<i>RCD functionality</i>	A ...RCCB Type A + RDC-DD D ...RDC-DD 0 ...no RCD
<i>X</i>	<i>Metering</i>	0 ...not equipped E ...functional, not calibrated M ...MID (Measuring Instruments Directive) certified L ...MessEV (Mess- und Eichverordnung) certified
<i>XI</i>	<i>PLC</i>	0 ...not equipped P ...PLC communication
<i>XII</i>	<i>Future options</i>	0 ...none
<i>XIII</i>	<i>LAN</i>	0 ...not equipped L ...LAN interface
<i>XIV</i>	<i>Serial meter interface</i>	0 ...not equipped S ...Serial meter interface (RS485)
<i>XV</i>	<i>I/O interface</i>	0 ...not equipped 1 ...Switch contact inputs and output
<i>XVI</i>	<i>RFID</i>	0 ...not equipped R ...RFID functionality
<i>XVII</i>	<i>SRWC</i>	0 ...not equipped 1 ...Short range wireless communication (Bluetooth®)
<i>XVIII</i>	<i>WLAN</i>	0 ...not equipped 1 ...WLAN module
<i>XIX</i>	<i>Mobile communication</i>	0 ...not equipped 1 ...LTE module (4G)
<i>XX</i>	<i>Processing unit</i>	0 ...Variant 0 1 ...Variant 1
<i>XXI</i>	<i>Touch button</i>	0 ...not equipped B ...Touch button
<i>XXII</i>	<i>User interface</i>	L ...LED
<i>XXIII</i>	<i>Future options</i>	0 ...None
<i>XXIV</i>	<i>Customer options</i>	xxxx Options for individual customer versions, not relevant for EU declaration of conformity

4 Status displays

The charging station has an LED bar for the display of the operating states and a smart charging symbol (optional) for the display of an intelligent charging current specification.

Audio signals

The installed buzzer uses various audio signals to aid in operation based on the operating state.




4.1 LED bar (status display)



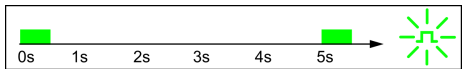
The LED bar (1) provides visual information about the current operating state of the charging station and can light up, flash or pulse in different colors.

The LED bar is only visible with activated power supply.

Information on the display of status displays

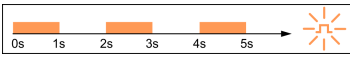
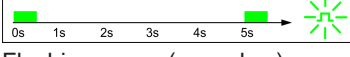
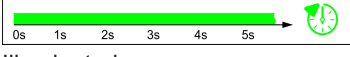
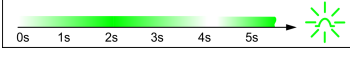

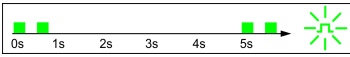
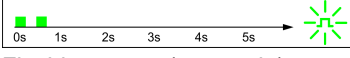
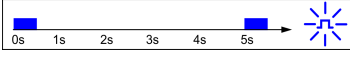
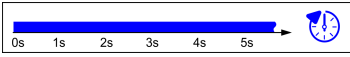
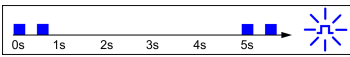
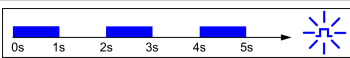
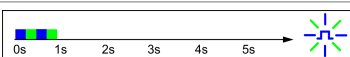
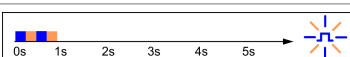
	Indicates that the LED bar lights up continuously.
	Indicates that the LED bar flashes in different manners or speeds.
	Indicates that the LED bar pulses at a consistent speed.

Example

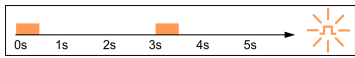
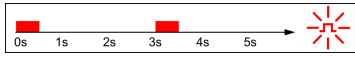
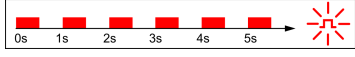



The light pattern explanations are shown in a short time sequence for a duration of 5 seconds. The example shows that the entire LED bar flashes green for 0.5 seconds every 5 seconds.

Common operating states

LED bar	Description
 <p>Flashing orange</p>	<ul style="list-style-type: none"> The charging station is being started. The charging station is performing a self-test upon start-up (with audio signal). Software update of parts of the charging station related to safety technology or measuring technology.
 <p>Flashing green (very slow)</p>	<p>Charging station is ready and no vehicle is connected. No authorization is required.</p>
 <p>Illuminated green</p>	<p>Charging station is ready, a vehicle is connected but has not yet requested charging. No authorization is required.</p>
 <p>Pulsing green</p> <p>Optional</p> 	<p>The vehicle is charged.</p> <p>If the smart charging symbol is also flashing, smart charging current control is also active and limits the possible charging current.</p>
 <p>Flashing green</p>	<ul style="list-style-type: none"> Charging station is ready, a vehicle is connected but has not requested charging in the last 5 minutes. The charging process request was ended by the vehicle. The charging process is blocked by the charging station (e.g. vehicle not ready, switch contact input or load management specification).
 <p>Flashing green (one cycle)</p>	<p>KEBA eMobility App can be used to start identification of the charging station. The charging station emits a short flashing signal and audio signal in order to be identified.</p>
 <p>Flashing blue (very slow)</p>	<p>The charging station is ready but no vehicle is connected. Authorization is required.</p>
 <p>Illuminated blue</p>	<p>Charging station is ready, vehicle is connected but authorization has not yet been performed via RFID card or switch contact input.</p>
 <p>Flashing blue</p>	<p>Charging station is ready but authorization was not performed within 5 minutes.</p>
 <p>Flashing blue</p>	<p>The RFID card has been read and is being checked for validity (with audio signal).</p>
 <p>Flashing blue/green (one cycle)</p>	<p>The RFID card has been accepted and the charging process can start (with audio signal).</p>
 <p>Flashing blue/orange (one cycle)</p>	<p>The RFID card has been rejected (with audio signal).</p>

4.2 Displays in event of error

LED bar	Description
 <p>Flashing orange</p>	<p>The charging station has detected an error (e.g. temperature too high) and attempts to remedy it. The status flashes until the error has been remedied. No activity by the operator required.</p>
 <p>Flashing red</p>	<p>Error that requires an action (with one-time audio signal after occurrence of the error).</p> <p>Possible actions by the operator:</p> <ul style="list-style-type: none"> • Unplug the charging plug and plug it back in. • Restart the charging station; to do so, switch the circuit breaker of the supply line off and back on again. • Residual current device (RCD) has tripped. Check the plug and cable for damage and repeat the charging process. If the error occurs more frequently, have the vehicle checked.
 <p>Flashing red</p>	<p>Serious error (with one-time audio signal after occurrence of the error).</p> <ol style="list-style-type: none"> 1) Switch off the power supply of the charging station; to do so, switch off the circuit breaker of the supply line. 2) Have the charging station checked by an electrician.
 <p>No display</p>	<p>No power supply or defect.</p>

5 Integrated energy meter



A charging station with an (optional) **calibrated** energy meter has a two-line LCD display on the right side. This display shows the status of the energy meter and additional information.

The energy meter measures only the energy that is actually transmitted to the vehicle. The energy for the charging station's internal power supply is not recorded by the energy meter.

- **Functional energy meter:**
Variants with this option are used for informative analysis of energy transmitted.
- **Calibrated energy meter:**
Variants with this option are suitable for the measurement of active energy in accordance with MID or MessEV. With these devices, there is a corresponding identifier on the type plate.

5.1 Displays with calibratable energy meter (MID)

Display		Description
<div style="border: 1px solid black; padding: 5px; width: fit-content;"> 99999.9999 kWh 01.00.00 AB12 * </div>		Display of the energy meter. The backlighting of the display is activated by certain "triggers": <ul style="list-style-type: none"> Restart of the charging station. Plugging and unplugging the charging cable. Start and end of the charging session.
Line 1:	99999.9999 kWh	Total sum of the energy registered by the device in [kWh] for all charging sessions to date.
Line 2:	01.00.00	Firmware version
	AB12	Checksum
	*	New log entry present.
	Error	Error. The charging station no longer meets calibration regulations and must be sent in for repair. If a meter value is displayed, the meter value is correct.

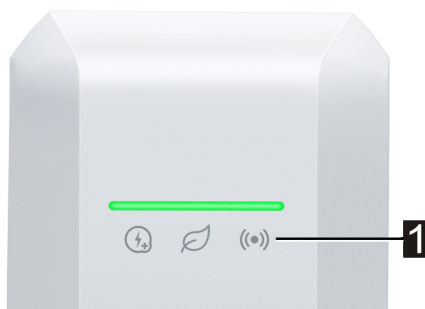
5.2 Displays with calibrated charging system (MessEV)

Display		Description
<div style="border: 1px solid black; padding: 5px; width: fit-content;"> 99999.9999 kWh 01.00.00 AB12 * </div>		Display of the energy meter. The backlighting of the display is activated by certain "triggers": <ul style="list-style-type: none"> Restart of the charging station. Plugging and unplugging the charging cable. Start and end of the charging session.
Line 1:	99999.9999 kWh	Total sum of the energy registered by the device in [kWh] for all charging sessions to date.
	00000.0000 kWh	Transmitted energy in [kWh] for the current charging session. Value visible during the charging session.
Line 2:	01.00.00	Firmware version
	AB12	Checksum
	*	New log entry present.
	Error	Error. The charging station no longer meets calibration regulations and must be sent in for repair. If a meter value is displayed, the meter value is correct.
	ID: xxxx	Identification data for the current charging session, for traceability of the transaction in billing.
	EUR/kWh	Rate information of the operating company.

6 Optional operating elements

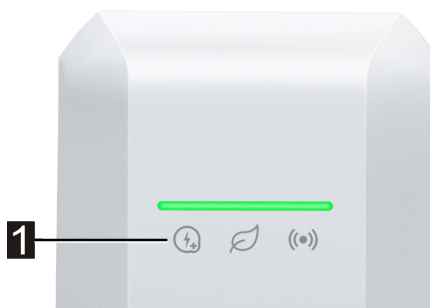
The pictured devices used in this manual are visual examples. The figures and explanations contained in this manual refer to a typical device design. The devices used by you may differ in their appearance.

6.1 RFID reader



The RFID reader (1) is used for non-contact authorization of a charging process using cards, tags or a smartphone in accordance with ISO 14443 and ISO 15693.

6.2 Touch button







If the charging current is limited by a smart charging current specification, the smart charging symbol lights up. In this case, the charging current limit can be waived once for the current charging session using the touch button (1) (contact surface), if this is permitted by the grid operator. This charges the vehicle faster, if needed.

6.3 Smart charging symbol



The smart charging symbol (1) indicates whether smart charging current specifications are currently reducing the maximum charging power. This can cause the charging process to take longer.

Display	Description
 No display	The charging station operates with the full, pre-configured power.
 Green / blue	Smart charging current control is active and limits the possible charging current (PV-optimized charging, switch contact input, OCPP charging profile, etc.). This makes the charging process take longer. Color and animation follow the display on the light bar.
 Orange	The charging current is currently limited because there is no connection to the higher-level control system (e.g. due to a network problem). The animation follows the display on the light bar.
 Red	The charging station is in a critical error state. The animation follows the display on the light bar.

7 Authorization

This section deals with the possible authorization functions of the charging station, depending on the device variant:

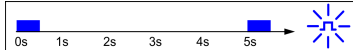
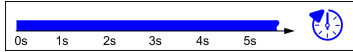
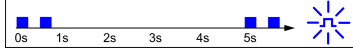
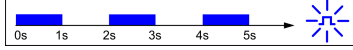
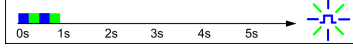
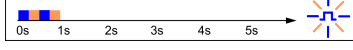
Authorization	KeContact P40	KeContact P40 Pro
Switching contact input X1.x	•	•
RFID module	Option	•
Management of up to 1000 RFID cards	Option	•

Authorization via switch contact input

With the switch contact input, it is possible to authorize the charging process via external components (e.g. house control). For more information, see the "Installation Manual".

7.1 Displays and signals

During authorization, the charging station can display different light patterns on the LED bar. Depending on the operating state, additional audible signals support operation.

 <p>Flashing blue (very slow)</p>	The charging station is ready but no vehicle is connected. Authorization is required.
 <p>Illuminated blue</p>	Charging station is ready, vehicle is connected but authorization has not yet been performed via RFID card or switch contact input.
 <p>Flashing blue</p>	Charging station is ready but authorization was not performed within 5 minutes.
 <p>Flashing blue</p>	The RFID card has been read and is being checked for validity (with audio signal).
 <p>Flashing blue/green (one cycle)</p>	The RFID card has been accepted and the charging process can start (with audio signal).
 <p>Flashing blue/orange (one cycle)</p>	The RFID card has been rejected (with audio signal).

7.2 Managing (teaching in/deleting) RFID cards

By default, a charging procedure can be started without authorization. In order to use the authorization via RFID, RFID cards first need to be taught in.

KEBA eMobility App or the optional KEBA eMobility Portal can be used for managing (teaching in or deleting) RFID cards.

7.3 RFID authorization in the charging network

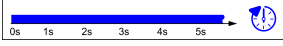
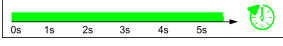
If a KeContact P40 charging station is operating as a **client** of a charging network, all RFID cards must be taught in to the master device (e.g.: KeContact M20). The permitted RFID cards for the entire charging network must be managed on the master device.

A KeContact P40 charging station cannot take over the function of a master in a charging network.

8 Charging process

8.1 Starting the charging procedure

The starting of a charging process depends on whether the charging station has authorization. This is visible on the LED bar:

Display	Description
 Illuminated blue	The charging station is waiting for authorization to enable a charging session. Authorization necessary either via RFID card or switch contact input.
 Illuminated green	No authorization required to start the charging session.

Starting the charging procedure

To start the charging process, proceed as follows:



1) Plug the charging cable into the vehicle.

2) At charging station with authorization:



Perform authorization at the charging station by holding up an RFID card. If the charging station is authorized without a vehicle plugged in, a vehicle can be plugged in for 5 minutes and this will start a charging session.

The charging process can now be started by the vehicle.

If an interruption occurs during the charging process, the charging station will automatically attempt to restart the procedure (max. 5 times). If the charging process cannot be started after 5 attempts, the charging station goes into an error state. This can be remedied by properly terminating the charging process. If the error occurs repeatedly, please contact your service partner.

8.2 Ending the charging process

To end the charging process, proceed as follows:

- 1) End the charging process on the vehicle.
- 2) Unplug the charging cable from the vehicle.
- 3) Stow the charging cable and plug the charging plug into the plug holder of the charging station.

The charging process is completed.

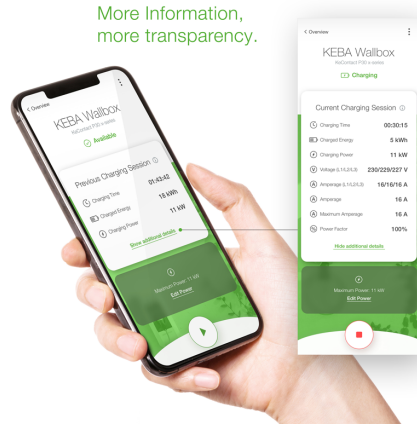
9 Error diagnosis

Errors	Possible causes	Remedy
LED bar does not light up	No supply voltage.	Check the cut-off device (e.g. circuit breaker) of the supply line and switch it on if necessary.
	The charging station is faulty.	Contact your service partner.
Charging process is not started	The charging cable is not plugged in correctly.	Unplug the charging cable and plug it in again.
	The charging process was not carried out correctly.	Follow the instructions in " 8 Charging process ".
	The charging plug or charging socket may be dirty or damaged.	Visual inspection for soiling, wear or damage. Clean dirty parts or have damaged parts replaced.
	The vehicle does not require energy or it has an error.	Check the vehicle.
	The vehicle is programmed to charge at a later starting time.	Check the settings in the vehicle.
	Lack of enable signal due to external control device (house control, photovoltaic system, etc.)	-
The vehicle not fully charged / longer charging time	Electricity reduction or interruption of the charging process by vehicle or charging station due to high temperature.	When the charging station has cooled down, the charging process is continued and the charging current may be increased again. Protect the vehicle and charging station from direct sunlight during the charging process (carport, garage, etc.).
	Electricity reduction by charging current specification (house control, PV system, etc.)	Check the configuration.
Charging cable cannot be unplugged	Charging process was not completed by the vehicle.	Complete the charging process as per the vehicle manufacturer's instructions.
	The charging socket may not unlock due to tensile stress on the charging cable.	Push the charging plug into the charging socket and start and end the charging process again.
LED bar flashes red	Error (see " 4.2 Displays in event of error ")	Errors must always be acknowledged by unplugging the charging cable. Switch off the power supply of the charging station. Disconnect the charging cable from the vehicle. Switch the power supply back on.
	The charging station is faulty.	Contact your service partner.

If you have any questions or problems, please contact your service partner. For this purpose, make a note of the product designation and serial number of the device (see "[3.2 Type plates](#)").

10 Short description of the app

KEBA eMobility App is an extended user interface for the charging station and can be used for the following applications:









More Information,
more transparency.

- View the current status.
- Start and stop charging processes.
- View information on past charging sessions.
- Set the charging power.
- Use comprehensive configuration options.
- Manage RFID cards.
- Perform a software update.

Connection options for KEBA eMobility App:

- Local connection via Bluetooth® wireless technology.
- Connection via LAN/WLAN in own network.
- Connection of a smartphone to the charging station worldwide via the Internet (remote access). For this, the charging station must be connected to the Internet.
- KEBA eMobility Portal

Downloading KEBA eMobility App		
 Download page of the manufacturer	www.keba.com/emobility-app	
	https://play.google.com	
	https://apps.apple.com	
Google™, Google Play™ and their logos are trademarks of Google Inc in the US and other countries. Apple®, App Store® and their logos are registered trademarks of Apple Inc in the US and other countries.		

Operating mode and configuration options of the app

The initial network settings of the charging station can only be configured on site via a Bluetooth® connection. For the charging station's extended scope of configuration, a connection between the app and charging station via LAN, WLAN or WLAN hotspot is required.

App mode	Connection	Remarks
Setup guide	Bluetooth®	<p>Selection of the charging station and connection.</p> <p>Access protection:</p> <ul style="list-style-type: none"> Bluetooth® PIN + User PWD password (see sticker on the back side of the included short manual) Alternative: Scan QR code (see sticker on the back side of the included short manual)
Network configuration wizard	Bluetooth®	Configuration of the network connection (LAN, WLAN or WLAN hotspot).
Installer mode	Bluetooth®	<p>Basic electrical settings of the charging station.</p> <p>Access protection:</p> <ul style="list-style-type: none"> Service key in the charging station and Installer PWD password (see sticker on the back side of the included short manual) <p>Possible settings are:</p> <ul style="list-style-type: none"> Maximum charging current Power supply Phase rotation Avoid asymmetrical loads Switch contact inputs (X1a, X1b) and switch contact output (X2), with the option to lock them.
User mode	LAN, WLAN, WLAN hotspot	<p>Full app functionality and full scope of settings.</p> <p>Access protection:</p> <ul style="list-style-type: none"> User PWD password (see sticker on the back side of the included short manual) <p>Possible settings are:</p> <ul style="list-style-type: none"> Start and stop charging processes Comprehensive configuration options (interfaces) RFID card management And much more

10.1 Establishing an app connection via Bluetooth®

For the initial use of KEBA eMobility App and for configuring or operating the charging station, proceed as follows:

- 1) Install KEBA eMobility App on your mobile device.
- 2) Switch on the mobile device's Bluetooth® function.
- 3) The power supply for the charging station must be switched on. The integrated Bluetooth® function is activated by default upon delivery. If the Bluetooth® function is deactivated, it can be activated using a LAN/WLAN connection or by activating installation mode (directly at the device).
- 4) Be within a distance of maximum 10 m from the charging station to enable wireless communication.
- 5) Open KEBA eMobility App.
- 6) Select the corresponding charging station or add a new charging station using the **[+]** button.
- 7) For a newly added charging station, enter the **PIN** of the charging station (see sticker on the back side of the included short manual).
- 8) Select the **"User"** or **"Installer"** role and enter the corresponding User PWD/Installer PWD password (see sticker on the back side of the included short manual).

The connection to the charging station is established.

10.2 Establishing an app connection via LAN/WLAN

If the connection has already been established via a LAN/WLAN network with the mobile device used, the charging station remembers this connection data. To use the app, proceed as follows:

- 1) Start KEBA eMobility App and establish the connection to the charging station. Re-entering the PIN is not necessary.

The connection to the charging station is established.

11 Maintenance

The hardware of the charging station is fundamentally maintenance-free, but must be regularly checked by the customer or system operator for defects on the charging plug (including charging cable) and for housing damage (visual inspection).

Notes on proper handling

- In order to extend the service life of the charging cable and avoid damage, it should not be bent, pinched, dragged over the ground or driven over.
- The contact area of the charging plug should not come into contact with heat sources, dirt or water.
- If the charging plug is not being used, always plug it into the plug holder or put a protective cap on it.

11.1 Cleaning

Caution

Risk of damage to the housing!

Use a soft, damp cloth to clean the charging station. Stubborn dirt can be removed using a mild, solvent-free, non-scouring cleaning agent. The cleaning agent must not contain any anionic surfactants.

- Regularly clean the exterior housing parts.
- If the cleaning notes are not observed, severe contamination (especially bird droppings) can lead to discoloration, yellowing and damage to the housing material.

11.2 Software update

The software of the charging station is subject to mandatory updates in accordance with the EU Directives "Sale of goods 2019/771" and "Digital content 2019/770" and their national versions.

The software of the charging station must therefore always be kept up to date, as updates may contain safety updates, function extensions and bug fixes.

A software update can be obtained through the following sources:

- KEBA eMobility App
- KEBA eMobility Portal
- Download address: www.keba.com/emobility-downloads
- OCPP backend

The information and instructions for the current software package from the associated release notes must be observed.

Information

- A software update is only performed if a vehicle is not connected to the charging station.
- Software updates may take some time. The update process is indicated by a slow orange flashing of the LED bar.
- The power supply must not be interrupted during the software update. Otherwise, the software update will not end correctly and continued normal operation of the charging station is no longer ensured.
- After the software update, the charging station restarts automatically.

Software update with KEBA eMobility App

To update the software of the charging station, proceed as follows:

- 1) Open KEBA eMobility App and connect with the charging station.
- 2) A more recent software version is shown in the app. The update process can be started directly from there.

Alternative:

- 1) Download a software update package from the manufacturer's website and copy it to the mobile device.
- 2) Open KEBA eMobility App and connect with the charging station.
- 3) Manually select the software update package in the app and transfer it to the charging station.

Depending on the device variant, the charging station may be integrated into the network differently:

- LAN connection

- WLAN connection

Software update via KEBA eMobility Portal

If the charging station is registered in KEBA eMobility Portal and connected with it, a software update can be initiated conveniently through the portal.

In the portal, the RAUC update method can also be selected, for example. Using this method, files are only transferred for which the charging station does not yet have the latest version.

Software update via OCPP backend

A software update for the entire charging network can be executed via the OCPP backend.

An HTTP link is required for the software update. The HTTP link is located with the information available for download along with the software update on our website.

Details on using the HTTP link can be found in the instructions for the OCPP backend.

12 Disposal

Caution

Please observe the regulations regarding disposal of electric appliances and electronic devices!



- The symbol with the crossed-out waste container means that electrical and electronic devices including their accessories must not be disposed of in the household garbage.
- The materials are recyclable in accordance with their labeling. You can make an important contribution to protecting our environment by reusing, renewing and recycling materials and old appliances.

Sustainability

Please consider the environment. The device contains valuable raw materials which should be recycled.

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