

KeContact P20

Firmware update instructions with P20 Update Device

This manual gives the necessary information how to update the firmware of a KeContact P20 Charging station (wallbox) using the battery powered **P20 Update Device**. Normally the latest firmware is already installed on the P20 Update Device.



Do not perform a firmware update when the Power LED of the P20 Update Device is red (please charge the battery first).

The firmware update procedure may only be performed by qualified personnel (experts). Pay attention to the handling instructions and safety notes in the “KeContact P20 Installation manual”!

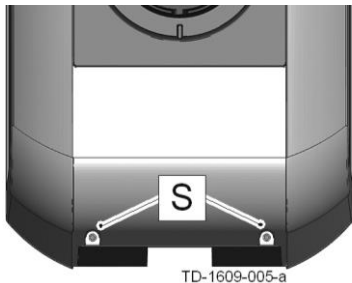


Notes

A firmware update does not require a renewed teaching of cards with installed RFID option.

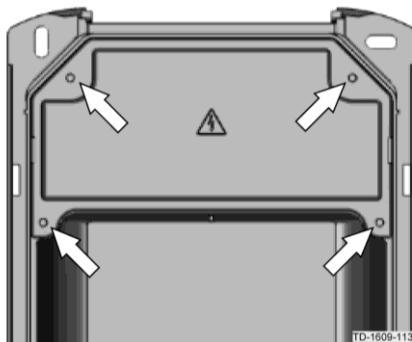
P20 Firmware update procedure

1. Open the connector panel to get access to the Ethernet 2 connector [X3].



Cover screws

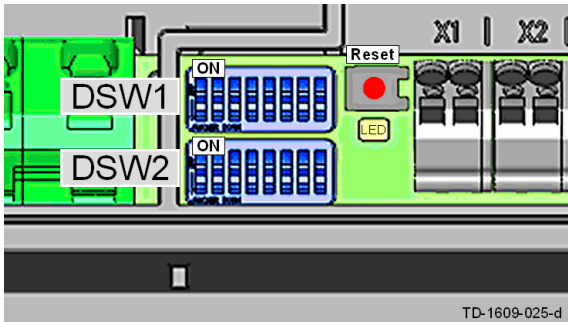
- ▶ Unscrew the two cover screws **[S]** on the bottom side of the housing cover.
- ▶ Remove the housing cover.



Removing the connector panel cover

- ▶ Unscrew the four screws with which the connector panel cover is mounted and remove the connector panel cover.

2. Configure the DIP-switches and perform a reset of the Charging station.

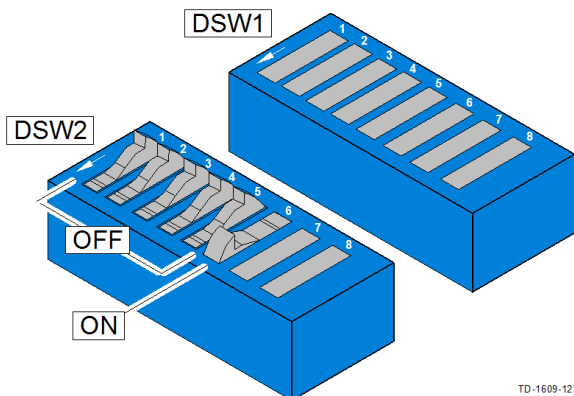


DIP-switches

The DIP-switches are used for the addressing and configuring the charging station and are located under the connector panel cover.

[DSW1]...configuration (upper DIP-switch)

[DSW2]...addressing (lower DIP-switch)



Addressing the Charging station

- ▶ Remember to note down the original settings of the wallbox.
- ▶ Set the DIP switches **DSW2.1** to **DSW2.5** to **OFF** and **DSW2.6** to **ON**.

Do not change the other DIP-switches!

Reset

- ▶ Perform a reset of the Charging station. To do this, press the [Reset button] for 1 second or switch the mains supply off/on.

3. Connect the **switched off** P20 Update Device (Ethernet port) to the Charging station (Ethernet port [X3]) using a standard RJ45 patch cable.

4. Firmware update sequence:

Firmware LED is **OFF** for approx. 20 seconds: -> **Switch on** the P20 Update Device.

Firmware LED is **BLINKING SLOW** for 20 seconds: -> The connected Wallbox will be discovered.

Firmware LED is **BLINKING FAST** for 25 seconds: -> The firmware download to the Wallbox is running.

Firmware LED is **BLINKING SLOW** for 20 seconds: -> Generate a log file for the updated Wallbox.

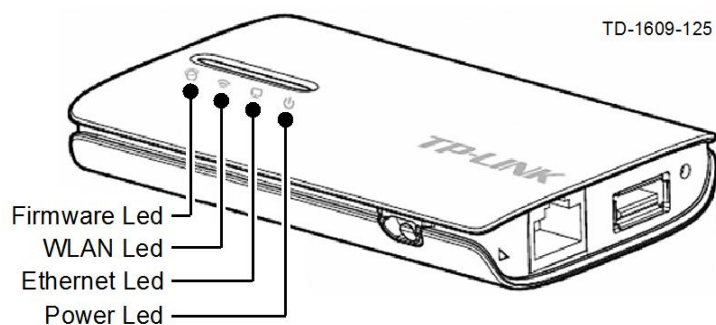
Firmware LED is **ON**: -> Firmware download was successful.

Firmware LED is **FLASHING EVERY 2 sec.** -> No Wallbox found or failure during firmware download.
Restart the P20 Update Device to try again.

5. Restore settings:

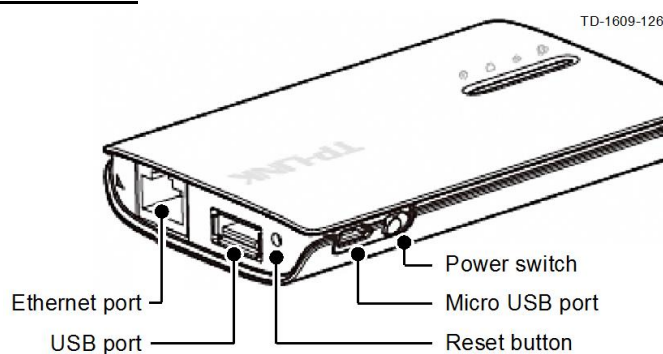
Set the IP address of the wallbox back to the previous settings and reset the wallbox.

Status LEDs:



Name	Status	Indication
Power LED	Solid green	The battery is full or the power supply is normal.
	Solid orange	The battery is being charged.
	Solid red	The battery power is low, you need to charge it.
	Flashing red	The battery is abnormal.
Ethernet LED	On	A device is linked to the corresponding port but there is no activity.
	Flashing	The Ethernet port is transferring data.
	Off	No device is linked to the corresponding port.
WLAN LED	On	The Wireless function is enabled.
	Flashing	There is data being transferred through wireless.
	Off	The Wireless function is disabled.
Firmware LED	Off	Update device is starting.
	Slow blinking	Discovering the Wallboxes.
	Fast blinking	Firmware download is performed.
	Solid On	Firmware download was successful.
	Flashing (2sec.)	Firmware download not successful.

Operating the P20 Update Device:



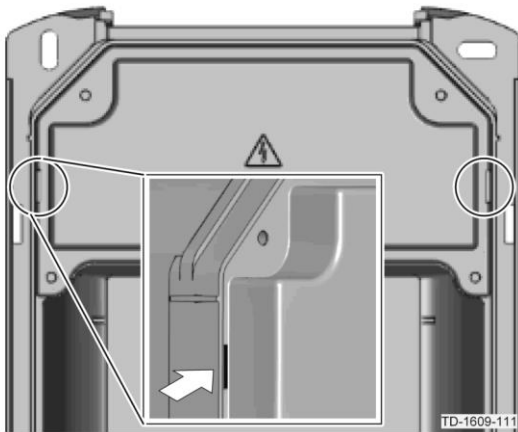
Switching on/off the P20 Update Device:

- ▶ Use the **[Power switch]** to switch the P20 Update Device ON and OFF.

Charging the battery of the P20 Update Device:

- ▶ Connect the provided USB power adapter to the **[Micro USB port]** to charge the battery of the P20 Update Device.

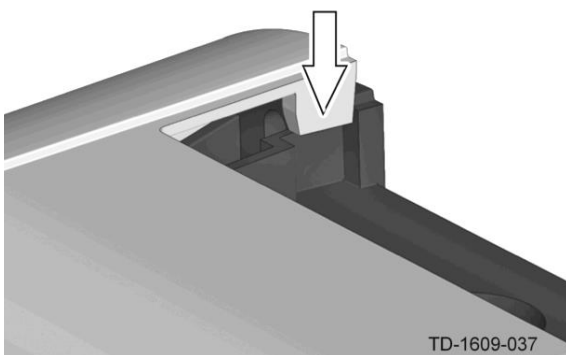
6. Closing the wallbox



Housing mark

- ▶ Tighten the four screws until the mark on the connector panel cover is even with the housing surface.

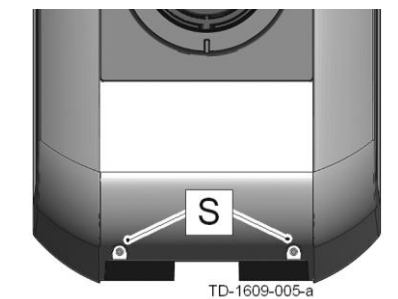
The connector panel cover must seal the housing properly.



Fitting the housing cover

- ▶ Fit the housing cover at the top and push the cover downwards slightly.

Make sure that the housing cover is seated correctly at the top in the housing guides.



Cover screws

- ▶ Secure the housing cover at the bottom using the two cover screws **[S]**.

Function test

- ▶ Check the function of the wallbox.

How to copy a new P20 firmware on your P20 Update Device

Required hardware: Notebook
P20 Update Device
LAN network cable

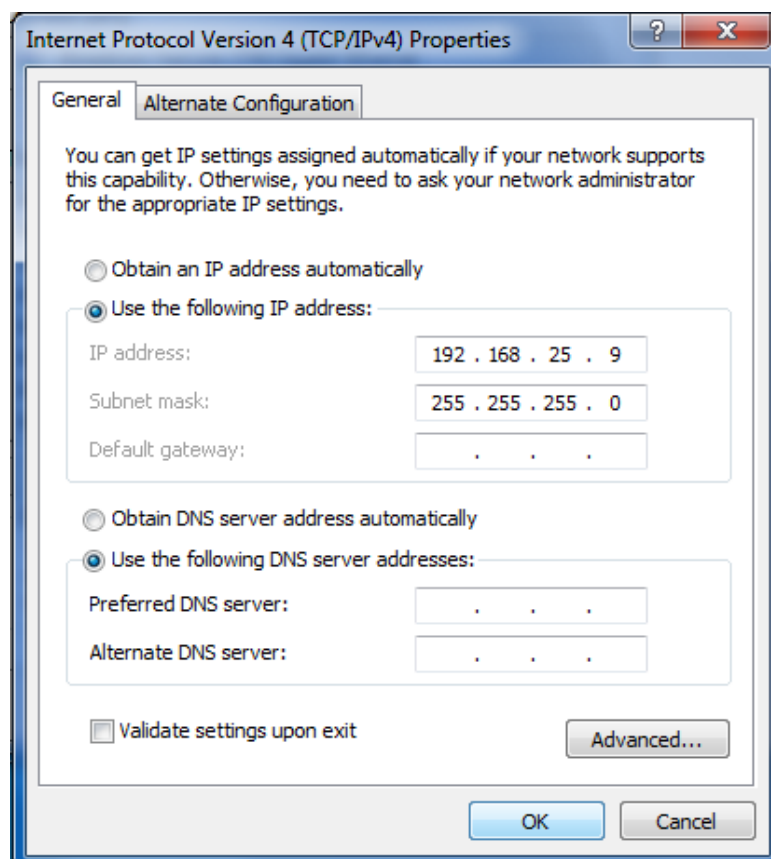
Required software: WinSCP (download under <http://winscp.net/eng/download.php>)
P20 Firmware (download under www.kecontact.com)

Preparations:

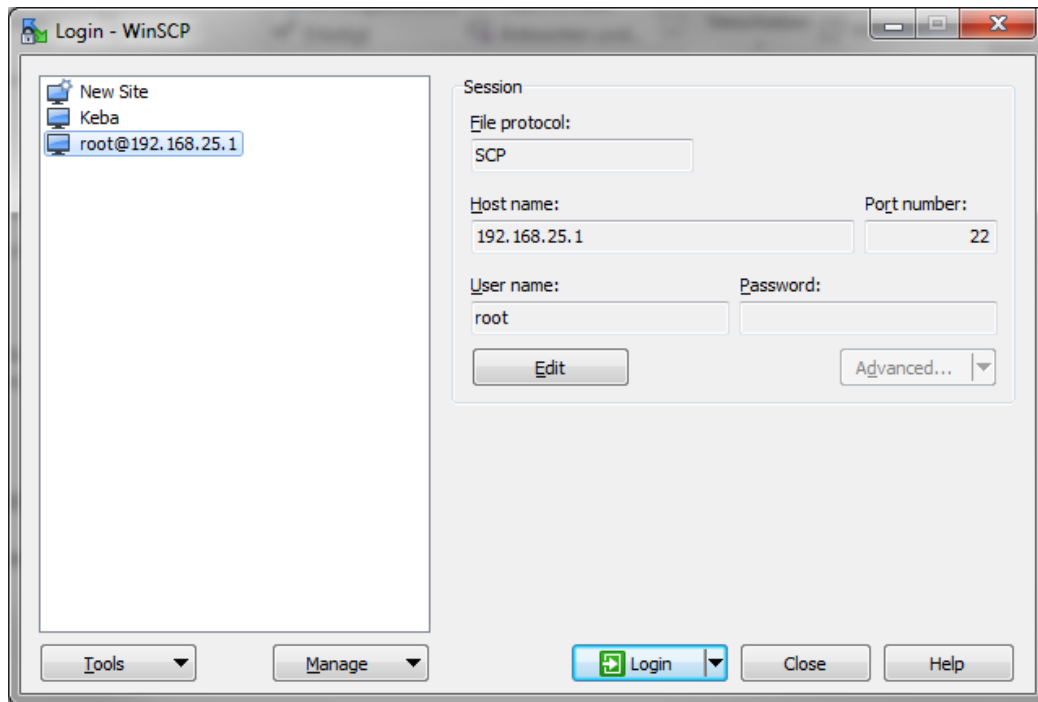
- ▶ Install the WinSCP software on your notebook or PC.
- ▶ Download the latest P20 firmware file under www.kecontact.com and extract the zip file to a local directory (e.g. c:\)

Update procedure:

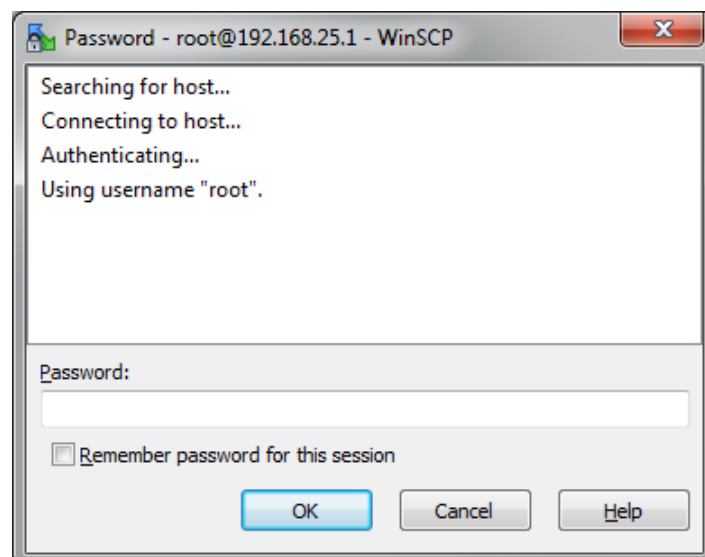
- ▶ **(1)** Change the TCP/IP address of your notebook to **192.168.25.9** in order to get a working network connection with your P20 Update Device (TP-Link).
- ▶ Connect the P20 Update Device to your notebook with a LAN cable.



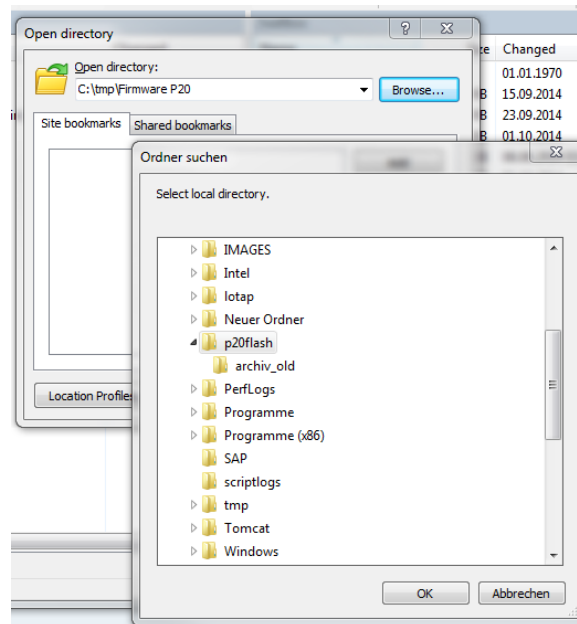
- ▶ **(2)** Start the WinSCP program and establish a new connection using the following parameters:
 - File protocol = SCP
 - Host name = 192.168.25.1
 - Port number = 22
 - User name = root



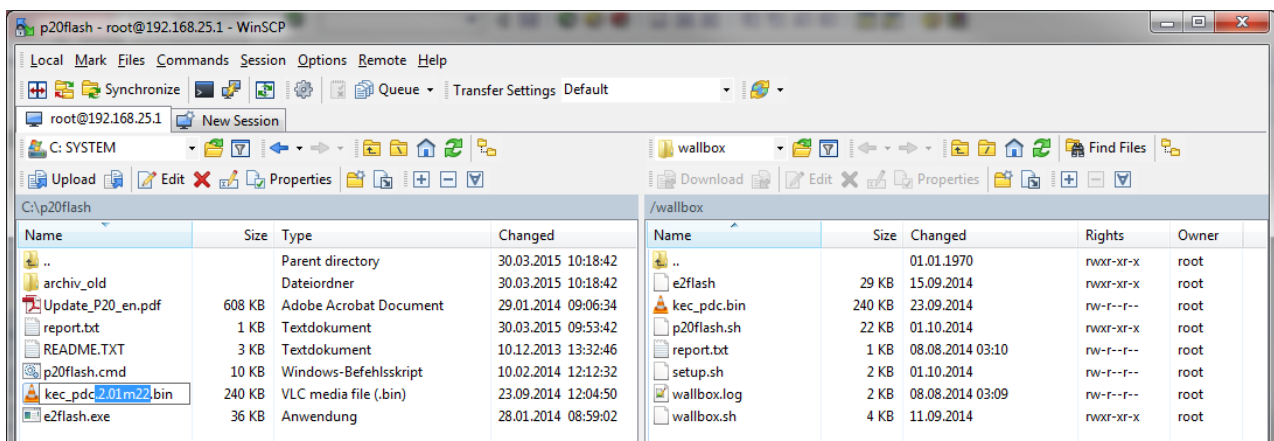
- ▶ Press the [Login] button and accept the warning note (computer rsa keys) with the [Yes] button.
- ▶ Establishing the connection:
Press the [OK] button to continue.



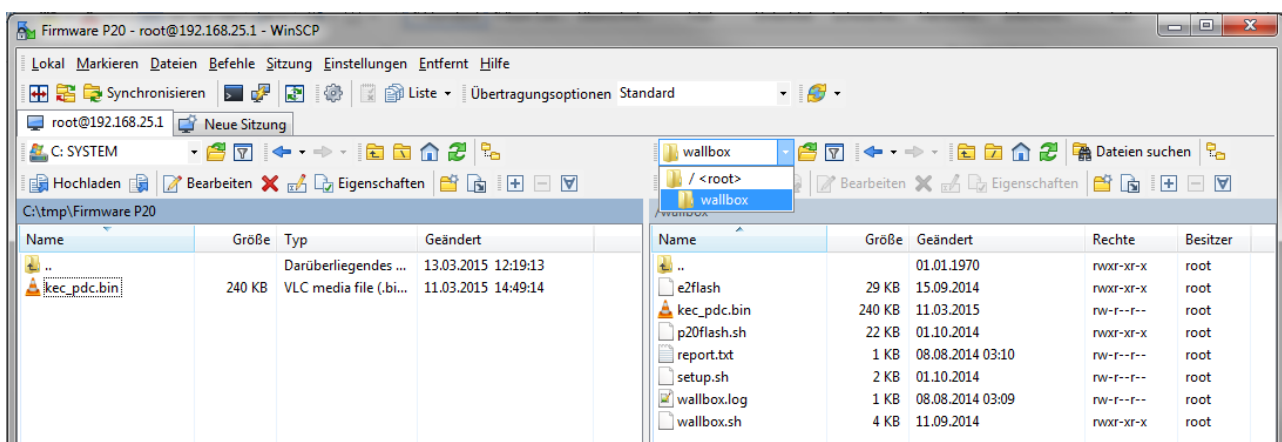
- ▶ **(3) Uploading the new P20 firmware file.**
Left WinSCP window: change to the directory with the extracted P20 firmware file.



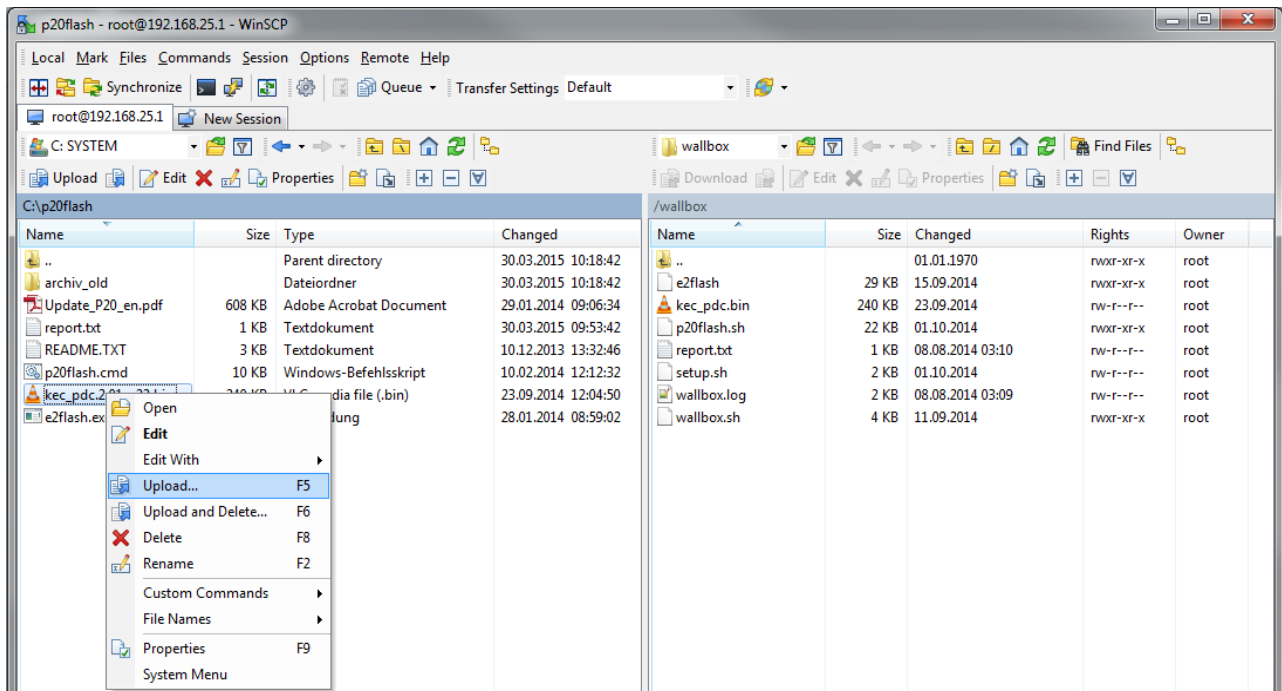
- ▶ Rename the firmware .bin file into **kec_pdc.bin**.



- ▶ Right WinSCP window: change to the **/wallbox** directory.



- ▶ Select the **kec_pdc.bin** file in the left WinSCP window and upload it to the P20 Update Device by pressing the [F5] button. As an alternative you can use the context menu of the marked file and select [Upload].



- ▶ After a successful update, the time stamp of the kec_pdc.bin file will change on the P20 Update Device.
- ▶ Disconnect the P20 Update Device from your notebook.

Now you can begin with the P20 firmware update procedure using the P20 Update Device as described at the beginning of this documentation.