

KeContact

KeContact P30 Charging Station Firmware Release Notes V 3.10.42

Original instructions



Automation by innovation.

History

Version	Date	Change in chapter	Description
3.10.16	07-2020	-	Firmware Version 3.10.16
3.10.27	03-2021	-	Firmware Version 3.10.27
3.10.28	06-2021	-	Firmware Version 3.10.28
3.10.36	03-2022	-	Firmware Version 3.10.36
3.10.42	01-2023	-	Firmware Version 3.10.42

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1 General

Purpose of this document is to inform about the changes of the latest firmware version. Detailed descriptions and instructions about the new features can be found in the product manuals. The content is categorized as enhancements, changes because of normative requirements and bug fixes.

1.1 Identification

It is possible to establish the actual version via the simplified web interface of the KeContact P30.

Status

Product-ID	KC-P30-ES2400G2-M0R-SN:19356984 ML:19331781
MAC Address	00:60:b5:3b:31:68
Software	P30 v 3.10.42 (221214-140018) : 32520 : 318.0 : 2080006
Service Info	0 : 0 0 : 1 : 0 : 0 : 1106 3089 : 3180 : 5044
State / Seconds	unplugged : seconds : 625803
Current limit (PWM hardware setup)	0,00A (100,0% duty cycle 0A)

Energy Monitor

Voltage	0 0 0 V
Current	0,00 0,00 0,00 A
RealPower PowerFactor	0,00 kW 0,0 %
Energy (present session)	24,57 kWh
Energy (total)	62940,68 kWh
Energy (housegrid meter) in out	- -
Energy (solar meter) in out	- -

Voltage and current show present values for L1 | L2 | L3
Values displayed may not be used for billing purposes
Energy monitor values shown as -|- indicate : not available with this product

1.2 Compatibility information

The firmware is compatible with the KeContact P30 a-/b-/c-/e-series.

1.3 Further documents and information

<http://www.keba.com/en/emobility/service-support/downloads/Downloads>

User manual

Installation manual

Configuration manual

FAQ for users and commissioning

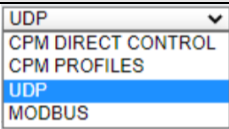
Firmware Version 3.10.42

Date of release: 17.01.2023

1.4 Implemented features, changes and improvements

1.4.1 Support 1-/3-phase switching with KeContact S10 (only P30 c-series)

You are now able to control the additional KEBA equipment KeContact S10 to improve solar charging. This provides ability to switch from 3 phase to 1 phase charging and back. The way how the Parameters and Keys are configured is described in the table beneath.

configuring communication channel	Parameter	Key
WebUI	Communication Channel	
OCPP	ConnectorSwitchPhase-Source (within ChangeConfiguration-Message)	NONE CPM_PROFILES CPM_DIR_CTRL MODBUS UDP
RestAPI	connector_phase_source	NONE CPM_PROFILES CPM_DIR_CTRL MODBUS UDP
Modbus TCP	5050	0 1 2 3 4*
UDP	x2src	0 1 2 3 4*
enabling dynamic switching 1-phase/3-phase charging operation	Parameter	Key
WebUI	Dynamic Switching 1-phase/3-phase charging operation	ON OFF
OCPP	ConnectorSwitch3to1PhaseSupported (within changeconfiguration-message)	true false
RestAPI	connector_phase_enable	true false
Modbus TCP	Automatic enabling when setting source different to "none"	
UDP	Automatic enabling when setting source different to "none"	
trigger phase switch	Parameter	Key (1-phase 3-phase)
OCPP	Numberphases (within charging profile)	1 3
RestAPI (within power profile)	numberOfPhases	1 3
RestAPI (directly)	phase-toggle?number-OfPhases	1 3
Modbus TCP	5052	0 1
UDP	X2	0 1

*Sources that can be configured via Modbus TCP or UDP:

0...disables the feature

1...CPM Profiles (IPVC-Feature, REST or OCPP)

2...CPM Direct Control (REST)

3...Modbus TCP

4...UDP

2 Firmware Version 3.10.36

Date of release: 29.03.2022

2.1 Implemented features, changes and improvements

2.1.1 Enhanced Modbus/TCP handling (only valid for P30 c- and x-series)

Two new registers (1600; 1602) are added to the readable registers of the Modbus TCP interface to check the current which is provided after losing connection to the Modbus TCP host and also the time, when a connection is declared as "lost".

3 Firmware Version 3.10.28

Date of release: 23.06.2021

3.1 Implemented features, changes and improvements

3.1.1 Enhanced Modbus/TCP handling (only valid for P30 c- and x-series)

New writable registers have been added to ensure a failsafe scenario:

Register	Parameter	Type	Unit	Description
5016	Failsafe Current	UINT16	mA	In this register, charging can be deactivated in case the connection between the PDC and the Smart Home System is down. An active charging process will be stopped. Supported values: 0: Deactivates charging 6000 – 32000: Sets Failsafe current [mA]
5018	Failsafe Timeout	UINT16	s	In this register, Failsafe can be deactivated when no Modbus TCP command was sent in between. Supported values: 0: Deactivates charging, charging will continue with the highest possible value. 10 – 600: Sets failsafe Timeout [s]
5020	Failsafe Persist	UINT16		In this register, the Failsafe settings can be persisted. Supported values: 1: Current Failsafe settings will be persisted.

4 Firmware Version 3.10.27

Date of release: 08.03.2021

4.1 Implemented features, changes and improvements

4.1.1 Current limitation using the enable input X1 (not valid for P30 e-series)

With a new setting of the DIP switches, it is possible to pause the charging session or to limit it to 8A via the enable input X1.

DIP switch	Function	Illustration
DSW2.6	<p>Not valid for P30 e-series.</p> <p>When the enable contact X1 is opened or closed, the available charging current is reduced to a certain value.</p> <p>The enable input X1 must be activated (DSW1.1 = ON).</p> <p>DSW2.6 = OFF = value: 0 A DSW2.6 = ON = value: 8 A</p>	<p>Example: Current limitation on, 8 A</p>

4.1.2 Avoiding asymmetrical loads (only valid for P30 c-series)

In case that 1- or 2-phase vehicles gets charged, an asymmetric load can be prevented by using the DIP switches.

DIP switch	Function	Illustration
DSW1.4 DSW1.5	<p>Only valid for P30 c-series.</p> <p>If communication is activated in the charging network (DSW2.5 = ON) or the wallbox is being operated as a slave, this setting is not possible.</p> <p>DSW1.4 = OFF DSW1.5 = OFF = Charging at full power for 1- or 2-phase chargers</p> <p>DSW1.4 = ON DSW1.5 = OFF = value: max. 16 A</p> <p>DSW1.4 = OFF DSW1.5 = ON = value: max. 20 A</p>	<p>Example: Symmetric charging, max. 16 A</p>

4.1.3 Enhanced Modbus/TCP handling (only valid for P30 c- and x-series)

- Reading Modbus/TCP register 1500 (last authorizing RFID tag) no longer returns 0
- Modbus/TCP register 1016 returns correct product ID
- Firmware version can now be read from Modbus/TCP register 1018 in order to support different Modbus Server implementations

5 Firmware Version 3.10.16

Date of release: 29.07.2020

5.1 Implemented features, changes and improvements

5.1.1 Modbus/TCP (only valid for P30 c- and x-series)

The Modbus/TCP interface can be used for example by energy management systems to calculate the actual current and react correspondingly to reduce or increase the charging current. For more information on reading and writing register, please have a look in the Modbus/TCP Programmer's Guide, which can be downloaded from following link:

<https://www.keba.com/en/emobility/service-support/downloads/Downloads>