



Fast and easy  
electric vehicle  
charging.



**KeContact P20** – charging up to 10 times faster.  
The charging point for fast and simple e-vehicle charging.

**KEBA®**

Automation by innovation.

# KEBA – your specialist for smart and reliable charging solutions.

Choosing an electric vehicle represents a conscious decision to opt for sustainable mobility and is therefore an investment in a green future. Nonetheless, from a practical perspective e-mobility must be reliable, safe and simple.

## E-mobility – a factor in a future, resource-friendly approach to the environment

Our mobility concepts past and present were and are based largely on fossil fuels such as oil. However, these energy sources place a burden on the environment and are limited, which against the background of a steady increase in traffic, results in the need for innovative forms of transport.

E-mobility facilitates the optimized employment of existing resources through the more efficient use of energy. Indeed, if the power requirement for e-mobility can be covered from renewable energy sources, CO<sub>2</sub> emissions can be reduced drastically, which will protect our environment.

## KEBA – a competent partner in the e-mobility field

Four years ago, KEBA recognized the fact that the e-mobility field offers great future potential. Company know-how in the areas of payment solutions, machine design and manufacture, and security technology is now flowing steadily into the development of “smart charging solutions”, thus providing simple operation, maximum safety and reliable operation.

## Park and charge

Studies show that in future power charging and recharging will take place where e-vehicles are parked for longer than two hours. Such places include home garages, as well as underground and multi-storey car parks at shopping centers, company parking lots, or park & ride facilities. Current development indicates that these areas offer the greatest promise for the successful implementation of e-mobility in the coming years.

An individual charging point, or wall box, is essential for standard charging at home.

In semi- or fully public parking areas, a scalable solution for the simultaneous charging of several vehicles makes sense, subject to the proviso that the users can be identified. Above all, rapid charging reduces the anxieties relating to vehicle range and allows the constant maintenance of e-vehicle availability at a high level.

It is precisely these differing requirements that the **KeContact P20**,

KEBA's charging point for the fast, easy and safe charging, meets in full.





## KeContact P20 – Fast and easy electric vehicle charging.

With its KeContact P20 charging point, KEBA provides an optimum solution for the comfortable and, above all, rapid charging of e-vehicles. On the one hand, it is therefore especially suitable for private persons, who wish to secure the mobility of their e-vehicles as quickly as possible. On the other, all those providing electrified parking areas for longer stays can also benefit from the KeContact P20.

### Modern design

The KeContact P20 has a convincing, attractive and modern design, which blends in perfectly in both in- and outdoor areas such as house and (underground) garage walls and carports.

### Safe, straightforward installation

A specialist such as an electrician can provide skilled, correct and safe installation with the result that there are no obstacles to the simple use of the charging point. The KeContact P20 allows straightforward installation by one person and offers guided start-up for the support of initial system checks. Consequently, a generally expensive vehicle simulator is no longer required for installation. Moreover, a separate connection section means that the possibility of incorrect operation or damage caused by the electrician is excluded in advance.

### Charging in minimum time

Charging with the KeContact P20 is up to ten times faster than that provided by a standard socket. Accordingly, depending on the vehicle type, charging generally only takes roughly an hour, which guarantees very high levels of e-vehicle availability.

### Simple, intuitive operation

The KeContact P20 offers optimum feedback regarding current charging activities and the status of the charging point, thus ensuring simple, intuitive operation. Indeed, via the operating display with multicolored LEDs, the user has a complete overview of the charging process at all times and the ergonomic design of the system further increases operational comfort.

- Charging up to ten times faster with up to 22kW
- Charging according to ISO 61851 Mode 3 takes roughly an hour
- Different product variations suitable for any type of e-vehicle
- Operating display with multicolored LEDs





## KeContact P20 – An all-in-one charging point for the home, semi-public and public areas.

### Reliable and safe operation

The KeContact P20 naturally meets all legal requirements, standards and safety regulations. An integrated current, voltage and energy meter ensures that vehicles with differing cable cross-sections can be charged irrespective of the fusing of the charging point.

For reporting purposes, this multi-rating device (non-calibrated) also supplies operators with important information about charging activities.

The temperature derating function secures maximum availability. Should the permitted ambient temperature be exceeded, the charging point remains in operation and merely reduces the supply of electricity.

The value added of the KeContact P20 is supplied by additional functions:

### Identification and authorization for use in semi-public and public areas

The KeContact P20 offers flexible operation. Various authorization possibilities ensure that only authorized persons are allowed to charge their e-vehicles at the charging point. The identification or authorization of the user either takes place via RFID according to ISO 14443, or a key switch, which with its half-cylinder can also be employed to lock the private entry door and is therefore ideal for use in apartment blocks.

### Pedestal for widely differing installation conditions

The KeContact P20 offers a diversity of installation possibilities such as on walls. The high-quality, stainless steel pedestal (available as an option), which has been matched to the design of the device, is suitable for one or two charging points. This solution is ideal for use in car parks, where two respective parking spaces face one another. In addition, the pillar is also suitable for ceiling installation should the structural conditions so require.

### The KeContact P20 as a communications interface

An Ethernet interface, which is available as an optional extra, facilitates simple connection with an existing DSL router on the one hand and is on the other hand already designed for the smart home integration of the future. In addition, a PLC modem (optional) furnishes linkage of the vehicle to the Internet, thus allowing operators and users to call up information regarding vehicle charging status.



*“ With the KeContact P20  
park and charge is up  
to ten times faster! ”*

# KeContact P20 – capable of dealing with any challenge.

**Your advantages at a glance** – Private persons with e-vehicles, companies with fleets and all parking facility operators can profit from the KeContact P20.

## The advantages in overview:

### Maximum safety during installation and operation

- All standards, safety regulations and accreditations are fulfilled
- Simple installation by a specialist (one person)
- Separate connecting section due to innovative system design
- Guided start-up for the support of initial system testing (installation mode means that a vehicle simulator is not required)

### Maximum user-friendliness and operational simplicity

- Multicolor LEDs show the operating status
- Security against electricity theft, especially in apartment blocks, through simple identification via RFID or authorization with a key switch

### Maximum availability

- Innovative technology for charging which is up to ten times faster than that provided by a standard socket

## Additional operator benefits:

### Maximum operator comfort

- User group limitation through various types of identification (RFID, key switch)



### Maximum flexibility and investment protection

- Support of individual customer corporate design
- Various installation possibilities depending on the local situation, e.g. on the wall or using a pedestal for one or two charging points, also suitable for ceiling installation

### Maximum availability

- Current, voltage and energy measurement allows the use of various cable cross-sections irrespective of charging point fusing
- Temperature derating should the permitted ambient temperature be exceeded

# KeContact P20 – flexible variations for your specific needs.

KeContact P20 Type 1



- 1-phase
- Up to 7.4kW
- Up to 32A
- This charging point is mainly suitable for Japanese and US vehicles.

KeContact P20 Type 2 with fix cable



- 3-phase
- Up to 22kW
- Up to 32A
- This charging point is mainly suitable for European vehicles.

KeContact P20 Type 2

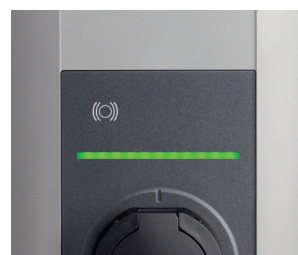


- 3-phase
- Up to 22kW
- Up to 32A
- Ideal for public and semi-public applications
- All e-vehicles can be charged with this product variation.

Please note: Actual charging performance is dependent upon the respective charger in the e-vehicle.

Additional product options for identification and authorization:

RFID



Key switch



# Technical data

## Installation variations

- Wall installation both in- and outdoors
  - optional installation on a pedestal for one or two charging points; also suitable for ceiling installation
- Surface mounted cabling from above or integrated from behind

## Electrical data

- Rated current (configurable connected load): 10A, 13A, 16A, 20A, 25A or 30/32A
- Network voltage: 3x 230-400V / 208-240V
- Network frequency: 50 Hz / 60 Hz
- Overvoltage category: III pursuant to EN 60664
- RCD and MCB in house installations
- Potential-free output
- IN enable input for external enabling, e.g. ripple-control receiver
- Socket variations: Type 2 standard socket: 32A / 400 VAC pursuant to EN 62196-1 and VDE-AR-E 2623-2-2
- Cable variations: Type 1 cable with 32A / 230 VAC pursuant to EN 62196-1 and SAE-J1772, Type 2 cable with 32A / 400 VAC pursuant to EN 62196-1 and VDE-AR-E 2623-2-2
- Protection type: IP 54

## Standards and directives

- Directives: 2004/108/EG, 2006/95/EG, 1999/5/EC R&TTE
- Standards Europe: IEC 61851-1, IEC 61851-22, IEC 62196-2, DIN EN 61439-1, IEC 61439-7, EN 61000-6-1, EN 61000-6-3
- Standards US/Canada: SAE J1772, UL 2594, UL 2231-1, UL 2231-2, CSA107.1, NEC, CFR

## Environmental conditions

- Operating temperature range:
  - at 16A: -25° C to +50° C
  - at 32A: -25° C to +40° C
- Permitted relative humidity: 5% to 95% non-condensing
- Altitude: max. 2,000m above sea level

## Colors

- Surfaces in RAL 7016 Anthracite Grey or RAL 7004 Signal Grey
- Design hood available as an extra component in special colors

## Functions

- Mode 3 charging
- Operating display (multicolor LEDs) for differing operational status

## Options

- Identification using RFID pursuant to ISO 14443 for Mifare product family RFID tags (e.g. Mifare 1K)
- Authorization using a key switch (half-cylinder not included in the scope of delivery)
- GreenPHY PLC modem homeplug
- Ethernet connection (RJ45) for debugging
- Ethernet connection LSA+ clamps for networking with the KeContact M10 (load management system) or for future smart home integration

## Dimensions / Weight

- WxHxD: 240x495x163 mm (without cable)
- Weight: approx. 4.8 kg (variation-dependent)

## Recommended installation height

Approx. 1,200 mm



KeContact P20 corresponds with current standards and the demands of e-vehicle manufacturers.

# Fit for the future with KEBA.

Founded in 1968, KEBA AG is an internationally successful electronics company based in Linz/Austria with subsidiaries in Germany, Romania, Turkey, Italy, the Czech Republic, USA, Taiwan, Japan and China.

In line with its credo, "Automation by innovation" KEBA has been developing and producing inventive, top quality automation solutions for over 40 years for industrial, banking, services and energy automation branches. Indeed, as a result of competence, experience and courage, KEBA is the technology and innovation leader in its market segments. Extensive development and production expertise have proved a recipe for highest quality.

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