



Designa CONNECT E-CHARGING STATION

The integrated solution for parking and charging electric vehicles.

An additional ticket is not required – and charging is just as easy as parking.

The only vehicle identification required for this is a ticket or licence plate. Parking and charging fees can be paid as one single payment. Customers do not need an additional app or special parking subscription and can use all the payment options available in your parking facility.

FEATURES

- Charging station for indoor and outdoor usage
- Two charging points per station
- Integrated QR code/barcode scanner and RFID reader
- Safe charging in mode 3 according to IEC 61851
- Designed for wall mounting
- Standing unit (optional)

HOW IT WORKS

- The charging point can be activated using a QR code, barcode or RFID card. The charging station status is indicated by an RGB LED ring. In addition, a 6-digit matrix display (min. character height 15 mm) shows the respective values at the start and end of a charging session for at least one minute.
- Charging station for electric vehicles (22 kW) with type 2 socket outlet, mode 3 charging stations with internal switching element, only turns on the supply voltage once communication with the electric vehicle has been established, i.e. not until it has been plugged in properly.
- When unplugged, the connector of the wall-mounted charging station is not supplied with voltage. The communication via an Ethernet interface facilitates simple connection to an existing on-site router.
- This enables the following applications:
Ethernet connection to a backend system via OCPP and optional GSM-LTE communication with a backend system via OCPP.

EQUIPMENT

- The dual charging station has an integrated QR code/barcode scanner and RFID reader. Including an electrical kit with all the fuses and protective equipment required for simple connection to the distribution system.
- New connection options allow quick and easy installation in any configuration, either individually (free-standing solution) or as part of a charging group that can be connected to a monitoring, energy management and/or billing system.

REPORTING

- For reporting and/or billing purposes, the integrated three-phase energy meter provides the car park operator with key information about charging activities. This data can be transmitted to a suitable backend system via OCPP.
- The parameterisation and adaptation of the charging station to the upstream electrical installation is achieved by means of a DIP switch in the connection unit of the wall boxes.

DESIGN VARIANTS AND OPTIONS

- Design: Wall mounted version, including mounting bracket
- Design: Free-standing version, including standing unit
- OCPP modem
- Unique paint finish according to preference

SAFEGUARDS AND STANDARDS

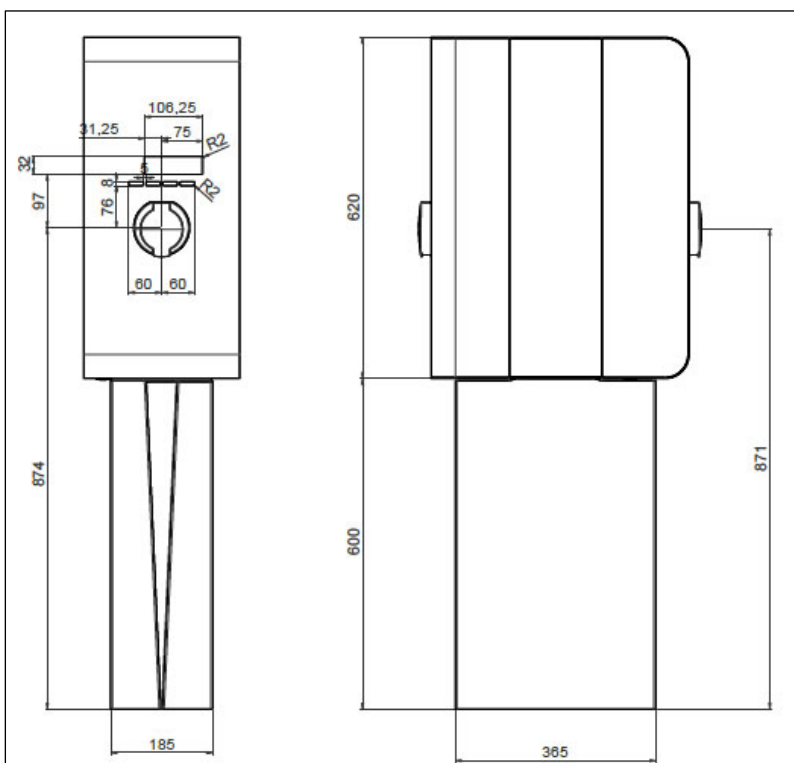
- The switching elements (installation protection) used in the charging stations have an isolating distance of 3 mm, which provides insulation for the basic protection of hazardous live parts in accordance with IEC 60664-1 for overvoltage category III. The charging points have a residual current device (RCD) integrated in the housing and an upstream miniature circuit breaker (MCB).
- The charging station can be provided with a max. 63 A back-up fuse. The required DC residual current monitoring > 6 mA for EV charging points is included in combination with RCD 32A and MCB 30 mA type A. EMC tested in accordance with IEC 61851-21-2:2018 (EV-ready, ZV-ready, DIN EN 61439 (VDE 0660-600), EN IEC 61851, EN 61439).
- Vandalism protection: IK10

TECHNICAL DATA E-CHARGING STATION

Charging points	2 socket outlets 22 kW type 2
Connection per charging point	22 kW 3P+N (three phase), 400 V, 32 A, 50 - 60 Hz +/- 1 %
Control unit connection	1P+N, 230 V, 6 A, 50 - 60 Hz
Earthing system	TT, TN(S) or TN(C)(S), max. 150 Ohm
Socket outlets	Type 2 (in accordance with IEC 62196) with protective cap
Charging mode 3	Charging current controlled by pilot contact in accordance with IEC 61851
RFID card reader	13.56 MHz, compatible with ISO/IEC 15693, 14443A/B, Calypso, Mifare
Consumption data metering	ME (in conformity with measurement and calibration law); optional MID meter
IP degree of protection	In accordance with IEC 60529: IP54
Mechanical impact resistance	In accordance with IEC 60529: IK10
Housing material	Stainless steel V2A (AISI 304) powder coated
Colour of hoods	White (RAL 9003), grey (RAL 7016)
Ambient temperature for operation	-25 °C to +50 °C
Storage temperature range	-40 °C to +80 °C
Permissible air humidity	In accordance with IEC 60068-2-78: 0 to 95% (non-condensing)
Max. elevation of installation location	2000 m above sea level
Product weight	Approx. 43.5 kg
Shipping weight	Approx. 50 kg
Dimensions (height x width x depth)	Approx. 1220 mm x 470 mm x 284 mm

TECHNICAL DATA STANDING UNIT (OPTIONAL)

Colours	RAL 9016
Material design	Stainless steel V2A (AISI 304) powder coated
Weight	18 kg
Dimensions (height x width x depth)	Approx. 596 mm x 365 mm x 183 mm



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