

Data sheet

DUO ims

**Model: socket, calibration law-compliant,
2x BKE-I, payment terminal (Payone)**

Article no. 12236911

The DUO ims was developed especially for direct connection to the public distribution grid in Germany. As an all-in-one charging station, all components are integrated, saving installation time and costs.

With the DUO ims, the requirements of calibration law and technical regulations in the German market are ideally implemented. The calibration law-compliant billing via the SAM module offers users maximum transparency. The integrated payment terminal of the DUO ims is ready for activation via charging cards or direct payment via smartphone, credit card and girocard and it offers a pin pad.

Thanks to two integrated fastening and contacting units for mounting electronic household meters (2x BKE-I), a power input of up to 2x 32 A is possible for both charging points.



Highlights

- Charging with up to 2x 22 kW AC
- Flexible load distribution between charging points
- Includes Payment Terminal
- payment according to AFIR
- Calibration law-compliant billing via SAM storage and display module
- Convenient single-hand operation
- LAN and 4G connectivity
- All components required to comply with VDE-AR-N 4100 fitted
- All protective components integrated
- Increased protection from vandalism due to highly impact resistant fibreglass reinforced plastic enclosure (IK10 rating, incl. display)
- Frontaccess point for connection and servicing
- Connection to IT backends via: OCPP 1.6J
- Energy/load management: Modbus protocol

Accessories

- SMC base + base filler granulate
- Installation kit for installation without prefabricated base

Technical data

General

| | |
|--------------------------------|---|
| Charging mode | AC, mode 3 |
| Number of charging points | 2 |
| Charging connector | 2x type 2 socket, incl. sliding cover |
| IT backend connection | OCPP 1.6 JSON |
| Authorisation | Free charging, RFID, smartphone app, giro and credit card |
| Package dimensions (H x W x D) | 1,700 x 800 x 1,200 mm, up to two charging stations on one Euro pallet |

Mechanical details

| | |
|------------------------|---|
| Mounting type | Base mounted (bm) |
| Enclosure material | Sheet moulding compound (SMC) |
| Surface | Painting: enclosure RAL 7016, textured paint |
| Lock | Swivelling lever with double lock, built-in space for two profile half cylinders |
| Dimensions (H x W x D) | 1,483 x 590 x 320 mm |
| Weight | Approx. 68 kg |

Electrical data

| | |
|--|---|
| Maximum charging output per charge point | 22 kW: Type 2 socket |
| Nominal voltage, number of phases, nominal frequency | 400 V; 3; 50 Hz |
| Maximum input current | 63 A per phase, configurable |
| Maximum output current | 32 A |
| Device power consumption in standby mode | < 13 W |
| Connections | House connection box with steel frame terminals (10 to 95 mm ²) Equipotential bonding rail with connection for local earth electrode |
| Earthing system | TN, TT |
| Protection | 2x RCD type A; 2x DC residual current detection 6 mA; 2x circuit breaker C20 3P or C40 3P; 1x circuit breaker B16 1P |
| Overvoltage protection | Type 1+2+3 compliant with DIN EN 61643-11 |
| Protection class | 2 |
| Welding detection | 2x hardware-based redundant cut-off |
| Measurement accuracy | Class A (DIN EN 50470) |
| Power factor $\cos\phi$ | 0,90 - 1 |
| Calibration law | The measurement accuracy of this meter is guaranteed only from a minimum output energy quantity of 1 kWh |

Technical data

Connectivity

| | |
|--|--|
| Communication interface to IT backends | LAN, mobile data network (2G/4G) |
| Protocols for communication with IT backends | OCPP 1.6 JSON |
| Protocols for communication with third-party devices | Modbus TCP/IP |
| Update capability | LAN, mobile data |
| User interface | User instructions via display |
| Status display | LED status indicator for each charge point |
| Display | Size: 4.3" display |

Certification

| | |
|--------------------------------|--|
| IP protection class | Enclosure: IP44; relevant components: IP54 |
| Impact resistance | IK10 |
| Meter / German calibration law | 2x MID-compliant smart meter with SAM storage and display module |
| Approvals | CE, RoHS, REACH, GPSD, WEEE |
| Standards | DIN EN 61851-1; DIN IEC/TS 61439-7; VDE-AR-N-4100 |

Environmental conditions

| | |
|-------------------------------------|---------------------------|
| Storage temperature | -25 °C to +50 °C |
| Environmental operating temperature | -25 °C to +40 °C |
| Humidity | < 95 % (non-condensing) |
| Degree of pollution | 3 |
| Areas of use | Internal & external areas |
| Operating altitude above sea level | 2,000 m max. |

Measurements



Illustrations/model variants





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Technical changes and errors excepted.

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