

# Data sheet DUO ims

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

Article no. 12236909

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 an integrated fastening and contacting units for mounting an electronic household meter (1x BKE-I), a power input of up to 32 A in total is possible for both charging points.



# Highlights

- Charging with up to 2x 22 kW AC
- Flexible load distribution between charging points
- Includes payment terminal with pin pad to comply with European AFIR regulations
- Additionally, AFIR-compliant thanks to display for showing QR codes for direct payment
- AFIR-compliant thanks to PLC modem and ISO 15118 communication
- Compliant to German calibration law
- 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 via Modbus protocol, FNN standard control box interface
- Convenient single-hand operation
- LAN and 4G connectivity
- All components required to comply with VDE-AR-N 4100 fitted

# Accessories

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

# Technical data

## General informationen

|                                |                                                                        |
|--------------------------------|------------------------------------------------------------------------|
| 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 (W x D x H) | 1,200 x 800 x 1,700 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 <sup>2</sup> )<br>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;<br>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                                                                                                                 |

# 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                              |
| Communication interface EV and EVSE                  | ISO 15118-2 according to AFIR              |
| Update capability                                    | LAN, mobile data                           |
| 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; ISO 15118-2   |

## 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.              |

# Technical data

## Measurements



## Viewpoints





Compleo Charging Solutions GmbH & Co. KG

Ezzestraße 8  
44379 Dortmund  
Germany

[info@compleo-cs.com](mailto:info@compleo-cs.com)  
[compleo-charging.com](https://compleo-charging.com)

Technical changes and errors excepted.

©2025 Compleo. All rights reserved.

This document may not be copied or reproduced in any form or by any means, in whole or in part, without written permission. All illustrations in this document serve only as examples and may differ from the delivered product. All information in this document is subject to change without notice and does not represent a commitment on the part of the manufacturer.

The power to move