

# Data sheet

## DUO ims

**Model: socket, calibration law-compliant,  
3-point meter, payment terminal (Lavego)**

Article no. 12236925

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 is ready for activation via charging cards or direct payment via smartphone, credit card and girocard and it offers a pin pad. The integrated three-point meter perfectly implements local grid connection requirements and enables with a maximum input current of up to 44 A a total power of up to 30 kW for both charging points.



# Highlights

- Charging with up to 2x 22 kW AC
- Flexible load distribution between charging points
- Includes Payment Terminal
- 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 via Modbus protocol, FNN standard control box interface

# 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	44 A
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> ) 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

# Technical data

## Connectivity

<b>Communication interface to IT backends</b>	
<b>Protocols for communication with IT backends</b>	OCPP 1.6 JSON
<b>Protocols for communication with third-party devices</b>	Modbus TCP/IP
<b>Update capability</b>	LAN, mobile data
<b>Status display</b>	LED status indicator for each charge point
<b>Display</b>	Size: 4.3" display

## Certification

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

## Environmental conditions

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

# Technical data

## Measurements



## Viewpoints





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Technical changes and errors excepted.

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