

# Data sheet

## DUO outdoor

**Model: socket, calibration law-compliant, Service RCD**

Article no. 12254910

The professional DUO outdoor SAM charging solution is ideal for use at publicly accessible charging points and for networked operation in companies, as it complies with calibration law thanks to SAM technology and fulfils AFIR regulations.

The bright 4.3" display enables the display of secure QR codes for direct payment. Alternatively, charging processes can be authorised via RFID card or app. It is characterised by a durable housing that will never rust. As an all-in-one charging station, all components are already integrated in the DUO outdoor SAM. It has an automatically resettable Service RCD as standard.

It is equipped with two Type 2 sockets and offers AC charging up to 22 kW. The DUO enables connectivity via LAN and mobile radio. It can be connected to any OCPP-capable backend.



# Highlights

- RCD can be reset via sliding cover to save testing and service costs
- With RCD self-test function
- Installation on SMC base simplifies setup, saves costs and also enables easy storage and transport
- AFIR-compliant thanks to display with QR codes for direct payment, as well as PLC modem and ISO 15118 communication
- Compliant with calibration law thanks to SAM module, ideal for billing of charging sessions
- High cybersecurity according to RED
- Load management included, without additional hardware or software costs
- Connection of energy management systems via Modbus TCP, Smart Charging (OCPP 1.6) or control contacts
- Increased vandalism protection thanks to glass fibre reinforced plastic housing with high impact resistance (IK10, incl. display)
- Direct access for operators and installers to charging station configuration via web interface DUCTO

# 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, optional: Giro-e
Package dimensions (H x W x D)	1,650 x 800 x 1,200 mm, up to six charging stations on one Euro pallet

## Mechanical details

Mounting type	Base mounted (bm)
Enclosure material	Sheet moulding compound (SMC)
Surface	Painting: enclosure RAL 9003, textured paint
Lock	Swivelling lever, built-in space for one profile half cylinder
Dimensions (H x W x D)	1,441 x 400 x 225 mm
Weight	Approx. 38 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	5-pole connection via main switch and PE terminal (up to 35 mm <sup>2</sup> )
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 cosφ	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
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; 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



## Illustrations





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Technical changes and errors excepted.

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