

# CHARGING POLE eMC2

## CONTROLLER WITH CHARGING SOCKETS

### 44 kW

The eMC2 charging pole has two integrated Type 2 charging sockets. Thanks to its ability of charging two vehicles at the same, it is the ideal solution for semi-public and public applications. The double powder-coated metal housing is splash and dust protected. Rain runs off the curved cover towards the back. In multiple unit installations the eMH3 controller charging pole takes care of all communication functionalities, such as billing and user management, and is connected to a Dashboard system. The charging pole comes pre-installed with integrated Type A FI circuit breaker (RCCB) and fault current detection and is ready for connection by the installing technician. The eMC2 is 'Made in Germany' and offers the highest safety standards available.



## General information

Model	eMC2
Product number	2P4445
Item number (EAN)	4011721176017
Commodity code	85371091
Packaging unit (PU)	1 unit
Packaging (dimensions LxWxH)	Shipped in carton on disposable pallet, 1,790 × 670 × 470 mm
Items supplied	Charging pole, printed instruction manual, installation kit

## Input/mains supply

External power supply	for supply cable sizes up to 5 × 70 mm <sup>2</sup> , AL/CU
Rated voltage	230/400 V
Rated current	63 A
Rated frequency	50 Hz
Upstream fuse	63 A
Terminal blocks	Direct connection to high-current terminal blocks

## Output/vehicle connection

Connection system per charge point	Lockable Type 2 charging socket, 32 A, in acc. with IEC62196-2, automatic unlocking in case of grid connection loss
Output voltage per charge point	230/400 V
Maximum charging current per charge point	32 A
Maximum charging output per charge point	22 kW
Load management	SBC

## Protection/integrated components

MCB per charge point	32 A, 4-pole, C characteristic
RCCB per charge point	RCCB, Type A, 30 mA
DC fault current detection	electronic, $I_{\Delta n \text{ d.c.}} \geq 6 \text{ mA}$
Energy meter per charge point	MID compliant
Load switching	Installation contactor, 4-pole, 40 A
Weld detection	Contacting welding trips RCD
Overcurrent protection	Integrated into firmware, disconnection at 105% after 1000 seconds, at 110% after 100 seconds, at 120% after 10 seconds
Temperature monitoring	internal, charging current reduction or shut down
Lightning and overvoltage protection	Type 1 + Type 2 combined arrester
Shut down (Standby)	all poles

## Charge monitoring/status indicators

Operating status indicator	LED
Access control	RFID card, QR code or smartphone app
Communication EV	in acc. with IEC 61851-1 Mode 3
Communication Controller/Extender	RS485
Backend communication	OCPP 1.5 and 1.6 via LAN or LTE (optional)

## Standards/guidelines

IEC 61851-1
IEC 61439-7 ACSEV

## Operating conditions

Storage temperature	-30 to 85°C
Operating temperature	-25 to 40°C
Relative humidity	5 to 95%, no condensation
Class of protection	I
Overvoltage category	III
Degree of pollution	3
Degree of protection (housing)	IP54
Impact strength	IK10
Maximum elevation	≤ 2,000 m AMSL
Power dissipation	-

## Housing

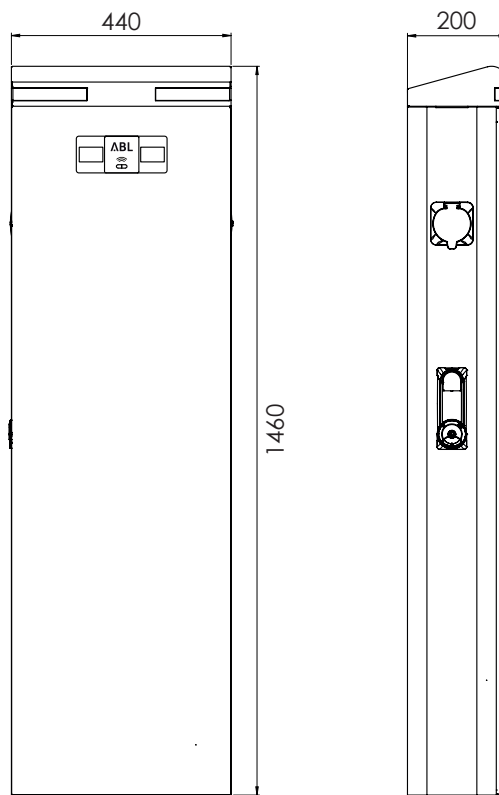
Type	Mounting pole
Fixing type	Screw fixings for installation on prefabricated concrete foundation (with or without plinth, both available separately)
Material (housing/cover)	Steel
Housing colour	Powder coated RAL9005
Cover/roof colour	Powder coated DB701
Locking mechanism	Grip handle, prepared for the installation of a profile cylinder lock
Pole dimensions (HxWxD)	1,460 × 440 × 200 mm
Weight	approx. 44 kg

## Accessories

Type 2 charging cable	LAK32A3, 32 A 240/415 V, length approx. 4 m
Type 2 charging cable	LAK32A3, 32 A 240/415 V, length approx. 7 m
Type 2 to Type 1 adapter cable	LAKK2K1, 32 A 230 V, length approx. 4 m
Prefabricated foundation	EMC9999
Plinth 160 mm	EMC9998
Plinth 100 mm	EMC9997
Configuration kit	CONF CAB
RFID card	E017869, 5 pcs
LTE accessory package	E3BLTE1
WLAN accessory package	E3BWLAN
Multi-purpose installation tester	TE001
Vehicle simulation adapter	TE002
see website at <a href="http://www.ablmobility.de">www.ablmobility.de</a>	

## Dimensioned drawing

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Subject to change: All performance characteristics, technical and other specifications are subject to change without prior notice.