

# CHARGING POLE eMC2

## EXTENDER 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 up to 7 eMC2 extender charging poles can be connected to one controller. Alternatively, the eMC2 charging pole can be configured for stand-alone use via the software provided. 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               | 2P4426   |
| Item number (EAN)            | 4011721174693  |
| Commodity code               | 85371091   |
| Packaging unit (PU)          | 1 unit   |
| Packaging (dimensions LxWxH) | Shipped in carton on disposable pallet, 1,790 x 670 x 470 mm |
| Items supplied               | Charging pole, printed instruction manual, installation kit  |

## Input/mains supply

|                       |   |
|-----------------------|---|
| External power supply | for supply cable sizes up to 5 x 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                           | Via controller  |

## 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                       | Contactor 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             | Via controller                       |

## 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              | –                         |

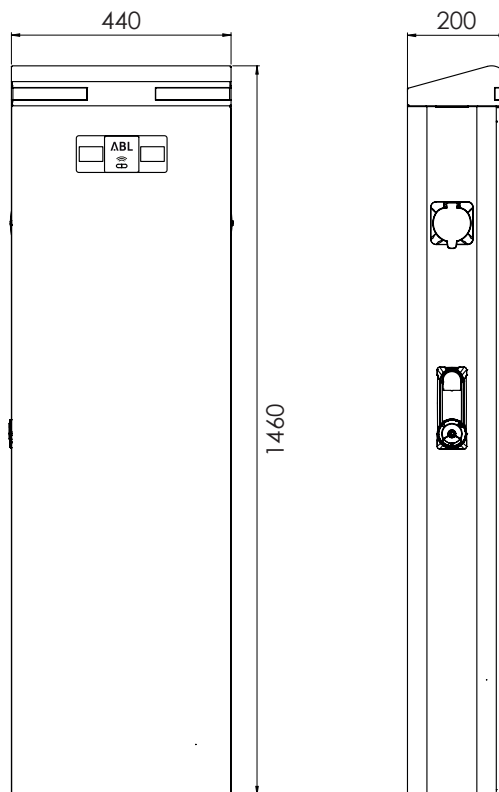
## Housing

|                          |   |
|--------------------------|---|
| 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                              |
| Multi-purpose installation tester   | TE001                                       |
| Vehicle simulation adapter  | TE002                                       |
| see website at <a href="http://www.ablmobility.de">www.ablmobility.de</a> |   |

## Dimensioned drawing



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