

CHARGING POLE eMC2

MASTER WITH CHARGING SOCKETS

44 kW

With its attractive, extremely weatherproof and powder coated metal housing, the eMC2 charging pole is the ideal solution for the semi-public domain. The 2P4445 has two Type 2 charging sockets with a charging output of up to 22 kW per charging point. For access control, the internal RFID module of the charging pole can be activated at any time via software. Of course, the eMC2 comes with our DC fault current detection installed as standard. Two MID compliant energy meters are also integrated. Back-end communication via OCCP for electrical energy consumption accounting is already integrated. The charging pole is pre-configured for use as a Master unit. The Master/Slave system is suitable for group solutions that are billed via a back end system.



General information

Model	eMC2
Model 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
Components included	Charging pole, printed instruction manual, installation kit

Input/mains supply

External power supply	for supply cable sizes up to 5 × 70 mm ² , 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	Contactor welding trips RCD
Temperature monitoring	internal, charging current reduction or shut down
Lightning and overvoltage protection	Type 1 + Type 2 combined arrester
Shut down (Standby)	all poles

Charging monitor/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
Master/Slave communication	RS485
Backend communication	LTE - OCPP 1.6 and 1.5, transport via SOAP or WebSockets

Standards/guidelines

IEC 61851-1
IEC 61439-7 ACSEV

Operating conditions

Storage temperature	-30 to 85°C
Operating temperature	-25 to 40°C in acc. with DIN EN 61851-1 -30 to 50°C with integrated derating function
Relative humidity	5 to 95%, no condensation
Class of protection	I
Overvoltage category	III
Degree of pollution	3
Degree of protection (housing)	IP44/IP54 (plugged/unplugged)
Impact strength	IK10
Maximum elevation	≤ 2,000 m AMSL
Power dissipation	-

Housing

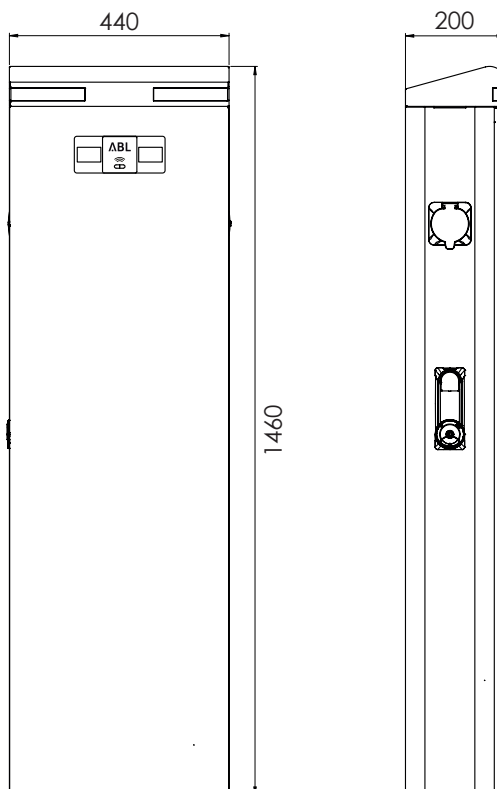
Type	Mounting pole
Fixing type	Screw fixings for installation on prefabricated concrete foundation (with or without plinth, both available separately)
Material (housing/cover)	Steel
Housing colour	Powder coated RAL9005
Cover/roof colour	Powder coated DB701
Locking mechanism	Grip handle, prepared for 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 AC, length approx. 4 m
Type 2 charging cable	LAKC222, 20 A 240/415 V AC, length approx. 7 m
Type 2 to Type 1 adapter cable	LAKK2K1, 32 A 230 V AC, length approx. 4 m
Prefabricated foundation	EMC9999
Plinth 160 mm	EMC9998
Plinth 100 mm	EMC9997
RFID card	E017869, 5 pcs

see website at www.ablmobility.de

Dimensioned drawing



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