

AMEDIO PROFESSIONAL PnC

CHARGING STATION FOR ELECTRIC VEHICLES



MENNEKES charging stations for public and semi-public use



Variants

		Communication acc. to ISO 15118 incl. Plug and Charge (PnC)		
LAN (RJ45)		LAN (RJ45)		
MID counter		MID counter		
RFID system		RFID system		
Personal and line protection		Personal and line protection		
DC-leakage detection		DC-leakage detection		
LED status display		LED status display		
AMEDIO Professional		AMEDIO Professional PnC		
Charging socket type 2 with hinged lid				
	Order no.		Order no.	
22 kW	140602412	22 kW	140622412	

These products are not marketed in Germany.



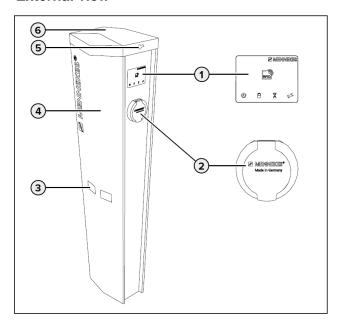
Product features

- Overall
 - Charging mode 3 acc. to IEC 61851
 - Vehicle connectors and charging socket acc. to IEC 62196
 - 2x charging socket type 2 (mode 3) with hinged lid
 - Charging capacity up to 22kW
 - MID certified energy meter
 - Unlocking function in case of grid failure with type 2 (mode 3)
 - Status information through LED info bar
 - Welding detection: Monitoring the load contactor: in case of error (adhesive load contactor) the charging point will be switched off for a safe isolation from supply.
- Authorisation via a backend system or RFID card
 (ISO 14443A / MIFARE classic and MIFARE DESFire)
- Communication / Networking
 - Locally networkable via LAN (RJ45)
 - Backend connection with locally internet (LAN)
 - Compatible with OCPP 1.5s and OCPP 1.6s+j
 - Powerline modem (PLC) for communication according to ISO 15118 (PnC)
 (only for Plug & Charge variants)
- Load management
 - Dynamic and phase-accurate load management for up to 100 charging points
 - Connection of an external MODBUS TCP energy meter for the local blackout protection
- Protection device
 - Integrated residual current (type A) and miniature circuit breaker
 - DC leakage detection > 6mA
 - Over voltage protection type 2
 - Surge protection ethernet
- Enclosure
 - Enclosure made of black sheet metal, galvanized and powder-coated
 - Lockable plastic cover with integrated profile half cylinder



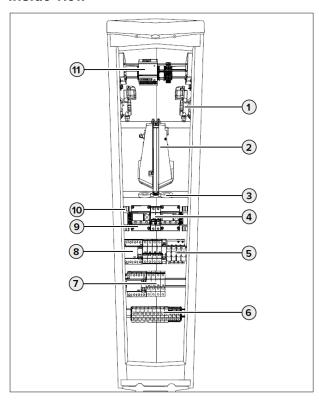
Assembly

External view



- 1. LED info bar with RFID reader
- 2. Charging socket (mode 3) with hinged lid
- 3. Counter window
- 4. Front plate
- 5. Lock for unlocking the cover
- 6. Cover

Inside view



- 1. Charging socket
- 2. MENNEKES ECU
- 3. Differential current transformer
- 4. Control circuit fuse
- 5. Overvoltage protection
- 6. Connection terminals for mains connection
- 7. MCB
- 8. RCD
- 9. Calibrated energy meter (MID licence)
- 10. Phase sequence measuring relay
- 11. Power supply unit



Technical data

Type-depende	nt data	AMEDIO Professional PnC	
Max. charging capacity mode 3 [kW]*		2 x up to 22	
Rated voltage U _N [V] AC		400 ± 10%	
Rated frequency f _N [Hz]		50	
Rated Current InA [A]		63	
Max. back-up fuse [A]		100	
Degree of protection		IP 54	
Protection class		I	
Dimensions H x W x D [mm]		1362 x 353,4 x 253,4	
Weight [kg]		45 - 50	
Rated insulatio	n voltage U _i [V]	500	
[kV]	withstand voltage U _{imp}	4	
Rated current of Inc [A]	of charging point mode 3	32 – 1 / 3 ph	
Rated condition [kA]	nal short-circuit current l _{cc}	10	
Rated diversity	factor RDF	1	
Pollution degre	ee	3	
Overvoltage ca	ntegory	III €	
Earth system		TN / TT	
Condition of installation		stationary	
Setting up		outdoor	
Usage		AEVCS	
Mounting meth	od	floor-mounted	
EMC classifikation		A+B	
Resistance to r	nechanical impact	IK 10	
	Terminals	5 x 2 x 35 mm ²	
Terminal strip supply line	Clamping range	rigid 1,5 x 50 mm² flexible 1,5 x 50 mm² flexible with ferrules fitted 1,5 - 35	
	Tightening torque	3,2 – 3,7 Nm	
Surge protection	Supply line**	type 2, pluggable, max. peak surge current 40 kA (8 / 20 μs)	
	Ethernet	secondary protection, total peak surge current 5kA (8 / 20 μs)	
Personal protection (RCCB)		40/0,03A, 4p, type A	
Line protection (MCB)		32A, 3p+N, characteristic C	
Control fuse (M	ICB)	6A, 1p+N, characteristic B	
Load contactor		32 A, 3p+N	
Standard		DIN EN 61851-1, DIN IEC / TS 61439-7	

^{*}The device can be operated in single-phase or three phase.

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^{**}optional

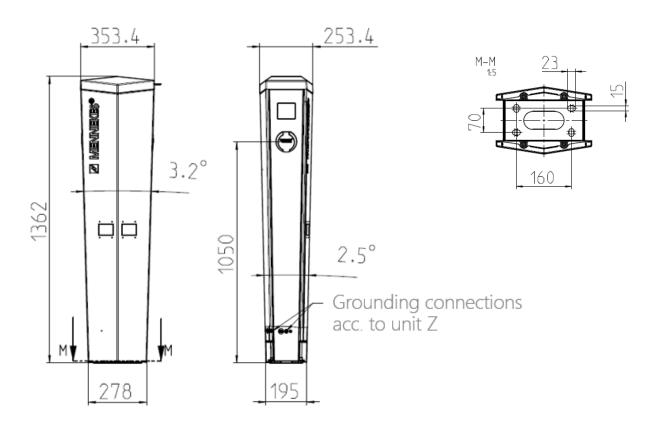




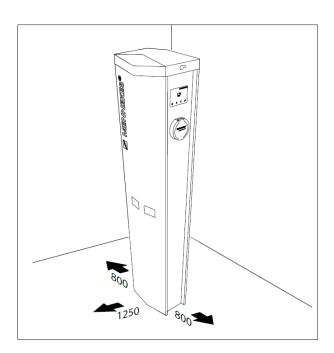
Environmental conditions		
Ambient temperature	-25+40 °C	
Average temperature within 24 hours	< 35 °C	
Altitude	Max. 2000m above the sea	
Relative humidity	Max. 95 % (non-condensing)	



Dimensions [mm]



Mounting distance [mm]





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