

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)	
3G / 4G modem	3G / 4G modem	
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.	

These products are not marketed in Germany.

140802412

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22 kW

22 kW

140822412



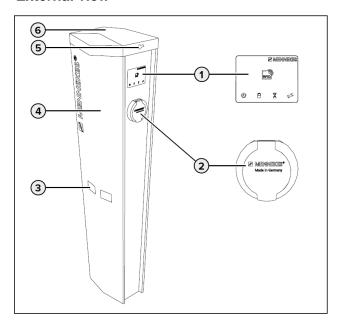
Product features

- 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 optional integrated mobile radio (Micro-SIM, 3G (UMTS) / 4G (LTE)) or locally internet (LAN)
 - Compatible with OCPP 1.5s and OCPP 1.6s+j
 - Backend connection for up to 50 charging points over one SIM card
 - 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



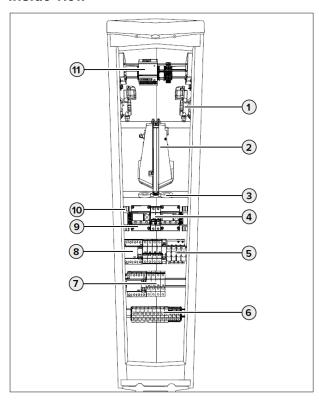
Assembly

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	ent data	AMEDIO Professional+ PnC 22
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 I _{nA} [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 insulation voltage U _i [V]		500
Rated impulse [kV]	withstand voltage U _{imp}	4
I _{nC} [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 degree		3
Overvoltage category		III
Earth system		TN / TT
Condition of installation		stationary
Setting up		outdoor
Usage		AEVCS
Mounting method		floor-mounted
EMC classifikation		A+B
Resistance to mechanical 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 (MCB)		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

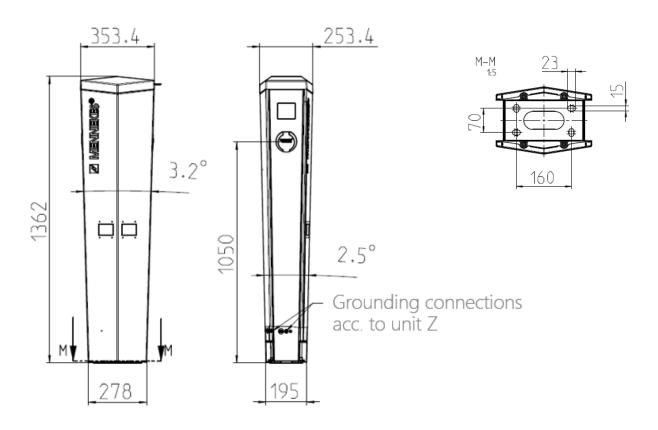




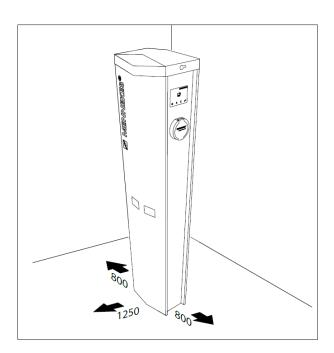
Environmental conditions	
Ambient temperature	-25+40 °C
Average temperature within 24 hours	<35°C
Altitude	Max. 2000m above the sea
Relative humidity	Max. 95 % (non-condensing)



Dimensions [mm]



Mounting distance [mm]





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