

AMTRON® PROFESSIONAL+ PNC

WALLBOX FOR ELECTRIC VEHICLES



MENNEKES AMTRON® designed for private and semi-public use



Variants

1364202

7,4 / 22 kW

7,4 / 22 kW

	Communication acc. to ISO 15118 incl. Plug and Charge (PnC)		Communication acc. to ISO 15118 incl. Plug and Charge (PnC)	
		3G / 4G modem	3G / 4G modem	
LAN (RJ45)	LAN (RJ45)	LAN (RJ45)	LAN (RJ45)	
MID energy meter	MID energy meter	MID energy meter	MID energy meter	
RFID system	RFID system	RFID system	RFID system	
Personal and line protection	Personal and line protection	Personal and line protection	Personal and line protection	
DC leakage detection	DC leakage detection	DC leakage detection	DC leakage detection	
LED status display Multifunction button	LED status display Multifunction button	LED status display Multifunction button	LED status display Multifunction button	
AMTRON® Professional	AMTRON® Professional PnC	AMTRON® Professional+	AMTRON® Professional+ PnC	

Charging socket type 2 with hinged lid							
	Order no.		Order no		Order no.		Order no.
7,4 / 22 kW	1364402	7,4 / 22 kW	1365402	7,4 / 22 kW	1366402	7,4 / 22 kW	1367402

1365202 **7,4 / 22 kW**

7,5 meter permanently	connected charging cab	le with connector type 2	(version "C2")	
Order no.	Order no	Order no.	Order no.	19.90

1366202 **7,4 / 22 kW**



1367202

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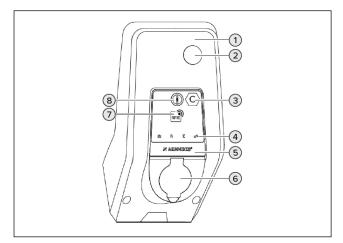
Product features

- Overall
 - Mode 3 charging acc. to IEC 61851
 - Vehicle connectors and charging socket acc. to IEC 62196
 - Charging power up to 7,4 kW (1ph) / 22kW (3ph)
 - MID certified energy meter
 - Unlocking function in case of grid failure (for devices with charging socket type 2)
 - Status information through LED info bar
 - Integrated cable suspension
 - 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
 - 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)
- 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
 - Connection of intelligent energy management systems via Modbus TCP
- Protection device
 - Integrated residual current (type A) and miniature circuit breaker
 - DC leakage detection > 6mA
- Multifunction button
 - RCD-Test
 - Re-activating of RCD and MCB switch
- Enclosure made of AMELAN®



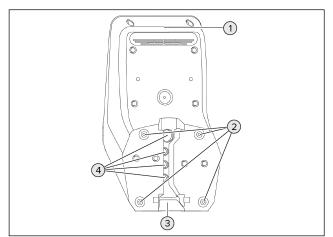
Assembly

Front view



- 1. Top section of housing
- 2. Inspection window for energy meter
- Charging point marking according to DIN EN 17186
- 4. LED information panel
- 5. Front panel
- 6. Charging connection
- 7. RFID card reader
- 8. Multi-function button

Rear view



- 1. Bottom section section
- 2. Fastening bores for mounting
- 3. Aperture for supply line / cable duct
- 4. Cable glands

Compatible energy meters for blackout protection

MENNEKES recommends the use of the following devices:

Siemens PAC 2200:

- Indirect measurement via a transformer (5 A):
 - 7KM2200-2EA30-1JA1 (with MID-certification)
 - 7KM2200-2EA30-1EA1 (without MID-certification)
- Direct measurement (up to 65 A):
 - 7KM2200-2EA40-1JA1 (with MID-certification)
 - 7KM2200-2EA40-1EA1 (without MID-certification)

Phoenix EEM-MB371-EIP 2907976:

This energy meter also allows a direct connection of Rogowski coils.

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Technical data

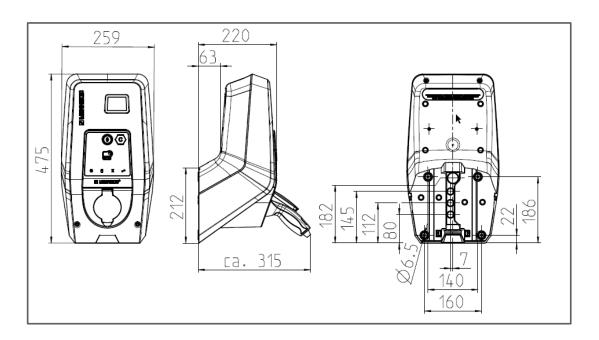
Type-dependent data		AMTRON® Professional+ PnC		
Rated voltage U _N [V]	AC ± 10%	400		
Rated frequency f _N [H	lz]	50		
Rated Current I _{nA} [A]		32		
Max. backup fuse [A]		100		
Max. charging capaci	ty mode 3 [kW]	7,4 / 22		
Rated current of charging point mode 3 I _{nc} [A]		32 - 1 / 3ph		
Terminal strip supply line	Nominal cross section	10 mm ²		
	Rated cross section	rigid 5 x 10 mm ² flexible 5 x 6 mm ²		
	Tightening torque	max. 1,8 Nm		
Rated insulation volta	ige U _i [V]	500		
Rated impulse withsta	and voltage U _{imp} [kV]	4		
Rated short circuit cu	rrent I _{CC} [kA]	10		
Rated diversity factor	RDF	1		
Earth system		TN / TT		
EMC classifikation		A+B		
Protection class		II		
Degree of protection		IP 44 Permanently attached charging cable IP 54 Charging socket type 2 with hinged lid		
Overvoltage category		III		
Resistance to mechanical impact		IK 10		
Pollution degree		3		
Setting up		Indoor or outdoor		
Condition of installation		Stationary equipment		
Usage		ACSEV		
Mounting method		Wall mounted		
Dimensions H x W x D [mm]		475 x 259 x 220		
Weight [kg]		6 - 10		
Personal protection (RCD)		40/0,03A, 4P, type A		
Line protection (MCB)		32A, 3P+N, characteristic C		
Control fuse (MCB)		6A, 2p, characteristic B		
Standard		DIN EN 61851-1, DIN IEC / TS 61439-7		

Environmental conditions		
Ambient air temperature	-30+50 °C	
Average temperature within 24 hours	<35°C	
Altitude	Max. 2000m above sea level	
Relative humidity	Max. 95 % (non-condensing)	

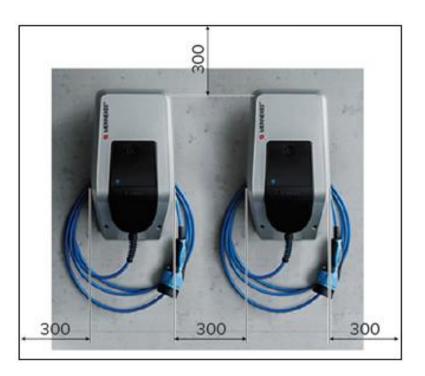
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Dimensions [mm]



Mounting distance [mm]



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