

AMTRON® PROFESSIONAL+ PNC

WALLBOX FOR ELECTRIC VEHICLES





MENNEKES AMTRON® designed for private 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)	LAN (RJ45)	
MID energy meter	MID energy meter	MID energy meter	
RFID system	RFID system	RFID system	
Personal and line protection	Personal and line protection	Personal and line protection	
DC leakage detection	DC leakage detection	DC leakage detection	
LED status display Multifunction button	LED status display Multifunction button	LED status display Multifunction button	
AMTRON Professional	AMTRON Professional+	AMTRON Professional+ PnC	

Charging socket type 2 with hinged lid					
	Order no.		Order no.		Order no.
7,4 / 22 kW	1364402	7,4 / 22 kW	1366402	7,4 / 22 kW	1367402
7,5 meter permanently connected charging cable with connector type 2 (version "C2")					

	Order no.		Order no.		Order no.
7,4 / 22 kW	1364202	7,4 / 22 kW	1366202	7,4 / 22 kW	1367202





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Product features

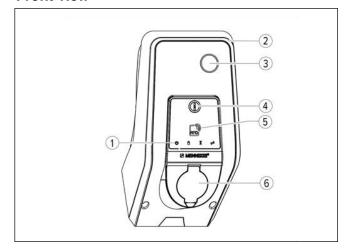
- Overall
 - Mode 3 charging acc. to IEC 61851
 - Vehicle connectors and charging socket acc. to IEC 62196
 - Charging power up to 7,4 kW (1ph) / 22kW (3ph)
 - MID certified energy meter
 - Unlocking function in case of grid failure (for devices with charging socket type 2)
 - Status information through 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 blackout protection
- 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
 - Enclosure made of AMELAN®

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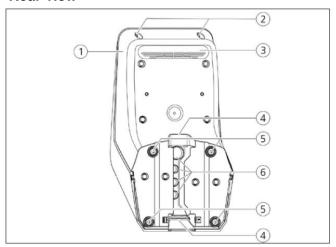
Assembly

Front view



- 1. LED info bar
- 2. Upper enclosure section
- 3. Inspection window for energy meter
- 4. Multifunction button (without function)
- 5. RFID card reader
- 6. Charging socket type 2 1)
 - 1) depending on the variant

Rear view



- 1. Lower enclosure part
- 2. Fastening screws for upper housing part
- 3. Passive ventilation
- 4. Recess for supply line/ cable duct
- 5. Fastening holes
- 6. Cable entries

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

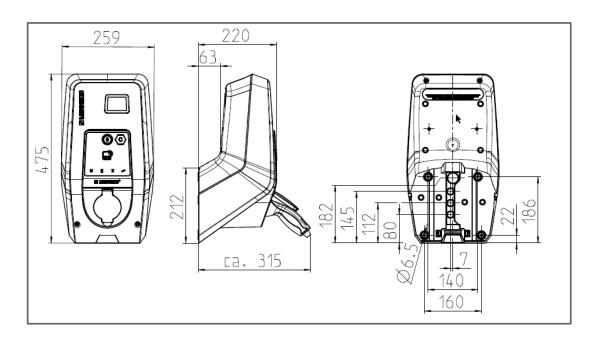
Type-dependent data		Professional+ PnC	
Rated voltage $U_N[V]$ AC ± 10%		400	
Rated frequency f _N [H	lz]	50	
Rated Current I _{nA} [A]		32	
Max. backup fuse [A]		32	
Max. charging capaci	ty mode 3 [kW]	7,4 / 22	
Rated current of charging point mode 3 I _{nC} [A]		32 - 1 / 3ph	
Terminal strip supply 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		ll l	
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	-25+40 °C
Average temperature within 24 hours	< 35 °C
Altitude	Max. 2000m above sea level
Relative humidity	Max. 95 % (non-condensing)

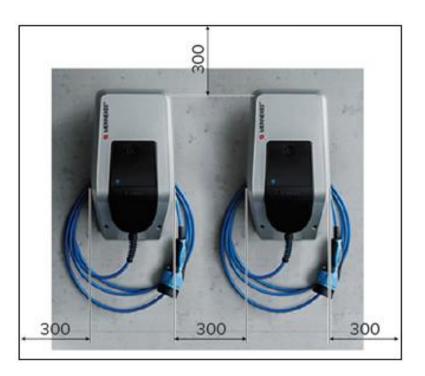
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Dimensions [mm]



Mounting distance [mm]



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