

AMTRON® PROFESSIONAL+ E

WALLBOX FOR ELECTRIC VEHICLES



MENNEKES AMTRON® designed for private and semi-public use

Variants

	3G / 4G modem
LAN (RJ45)	LAN (RJ45)
MID energy meter	MID energy meter
RFID system	RFID system
DC leakage detection	DC leakage detection
LED status display	LED status display

AMTRON Professional E

AMTRON Professional+ E

Charging socket type 2 with hinged lid

Order no.		Order no.	
7,4 / 22 kW	1374402	7,4 / 22 kW	1376402



7,5 meter permanently connected charging cable with connector type 2 (version „C2“)

Order no.		Order no.	
7,4 / 22 kW	1374202	7,4 / 22 kW	1376202



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: two additional terminals for controlling an externally installed shunt opening release, which can disconnect the charging point in case of a fault (welding contactor).

This function is only needed in certain countries.
- 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
- 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
 - DC leakage detection > 6mA
- Enclosure
 - Enclosure made of AMELAN®

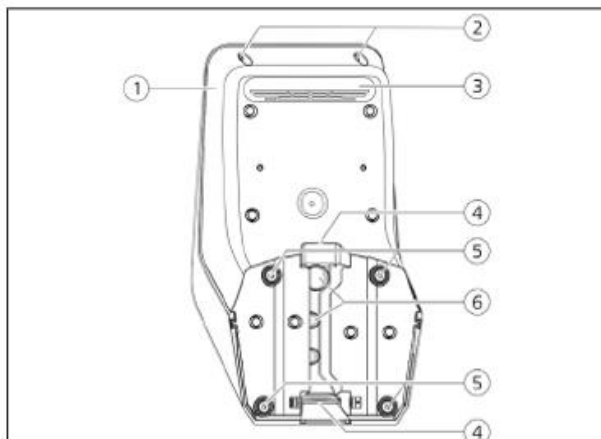
Assembly

Front view



1. Multifunction button (without function)
2. LED info bar
3. Fastening screws for upper housing part
4. Upper enclosure section
5. Energy meter with inspection window
6. Front panel
7. RFID card reader
8. Charging socket type 2
9. Pre-cut recess for supply cable /cable duct

Rear view



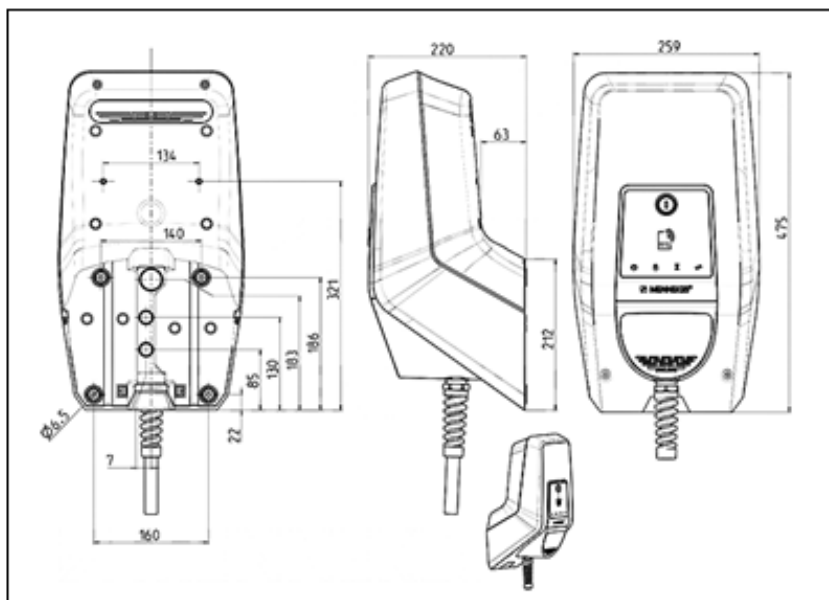
1. Base part
2. Fastening screws for upper housing part
3. Passive ventilation
4. Recess for supply line/ cable duct
5. Fastening holes
6. Cable entries

Technical data

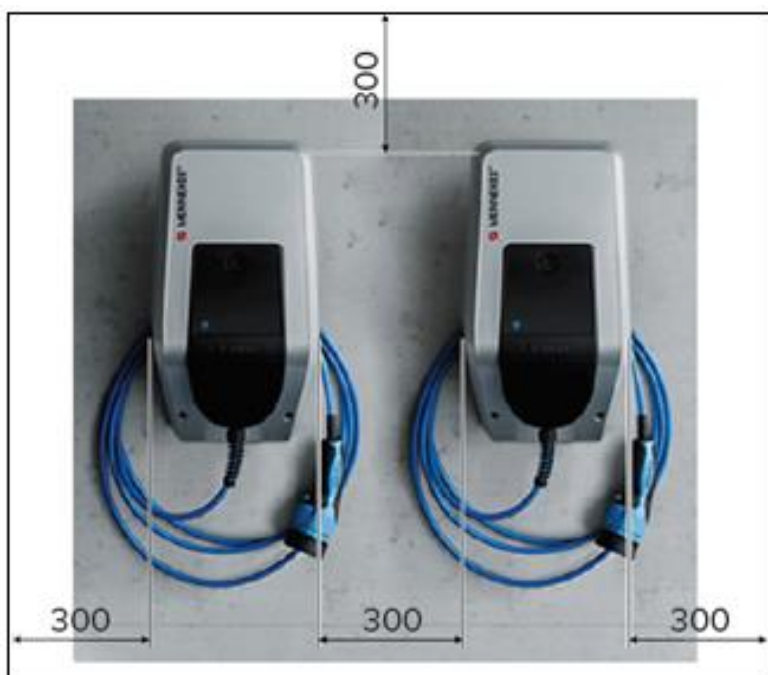
Type-dependent data		Professional+ E
Rated voltage U_N [V] AC $\pm 10\%$		400
Rated frequency f_N [Hz]		50
Rated Current I_{nA} [A]		32
Max. backup fuse [A]		32
Max. charging capacity mode 3 [kW]		7,4 / 22
Rated current of charging point mode 3 I_{nc} [A]		32 - 1 / 3ph
Terminal strip supply line	Nominal 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 voltage U_i [V]		500
Rated impulse withstand voltage U_{imp} [kV]		4
Rated short circuit current I_{cc} [kA]		10
Rated diversity factor RDF		1
Earth system		TN / TT
EMC classification		A+B
Protection class		II
Degree of protection		IP 44: Permanently attached charging cable P 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]		7 - 11
Control fuse (MCB)		6A, 2p, characteristic B
Load contactor		45 A, 4p (3ph+N)
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)

Dimensions [mm]



Mounting distance [mm]



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