

AMTRON® Start E, Light - parking space EU



The MENNEKES AMTRON® Wallbox for parking space management systems is a charging station for use in e.g. company car parks and hotel car parks or other parking spaces.

- Charging acc. Mode 3 (IEC 61851)
- Vehicle connectors and charging socket acc. IEC 62196

- Integrated cable suspender

Optional:

- Charging socket type 2
- Permanently connected charging cable with connector type 2 (Length 7,5m)
- Charging power up to 22 kW



PRODUCTFEATURES

- Status information through LED info bar
- Operation with 1-phase or 3-phase power supply possible
- Interface for the connection to parking space management systems:
 - The charging system signals a connected vehicle (State B) via a potential-free contact.
 - The activation is performed by applying an external voltage Signal 230VAC.
 - The type of authorization can be selected between pulse signal and permanent signal.
 - The charging system signals an activated contactor (State C) via a potential-free contact.
- Only for Start E versions:
RCD and Circuit breaker have to be installed externally.
- Multi-function button
 - Stop function (adjustable parameters; deactivated by default)
 - Reset function
 - RCD test (only with integrated RCD)
 - Re-activating of RCD and CB (only with integrated RCD / CB)
- Unlocking function in case of power failure (only for devices with charging socket type 2)
- Enclosure made of AMELAN®
- Wired ready for connection

Versions



	Start E		Light	
	LED status display Stop button		LED status display Reset button	
	Personal protection (RCD)			
	Part number		Part number	
Charging socket type 2 (version „T2“) (A)	11 kW	1350405	11 kW	1351454
Permanently connected charging cable with connector type 2 (version „C2“) (B)	22 kW	1350204	22 kW	1351254
Charging socket type 2 with shutter (version „T2S“)	22 kW	1350604		
<u>Only for Italy</u> (C)				

TECHNICAL DATA

Charging power Mode 3	11 kW	22kW
Rated voltage U_n	400 V AC ± 10 %	400 V AC ± 10 %
Rated frequency f_n	50 Hz	
Rated current I_{nA}	16 A	32 A
Charging current Mode 3 I_{nC}	16 A, 3 ph	32 A, 3 ph
Degree of protection	IP 44 (permanently attached charging cable or charging socket type 2 with Shutter) IP 54 (charging socket type 2 with hinged lid)	
Protection class	I	
Dimensions	474,8 mm x 259,2 mm x 220,1 mm (H x B x T)	
Weight	5...8,5 kg (je nach Ausführung)	
Rated impulse withstand voltage U_{imp}	4 kV	
Rated short circuit current I_{cc}	10 kA	
Rated diversity factor RDF	1	
Pollution degree	3	
Earthing system	TN/TT	
Condition of installation	Stationary equipment	
Usage	ACSEV	
Mounting method	wall mounting, surface mounting	
EMC classification	A+B	
Resistance to mechanical impact (IK)	IK08	
Rated insulation voltage U_i	500 V	
Maximum cable cross-sections at the terminals	Rigid	5 x 6 mm ²
	Flexible	5 x 4 mm ²
		5 x 10 mm ²
		5 x 6 mm ²

ENVIRONMENTAL CONDITIONS

Ambient air temperature	-25 ... +40 °C
Average temperature within 24 hours	< 35 °C
Storage temperature	-25 ... +40 °C
Altitude	max. 2.000 m above sea level
Relative humidity	max. 95 % (non-condensing)

PERSONAL AND CIRCUIT PROTECTION (RCD / CB)

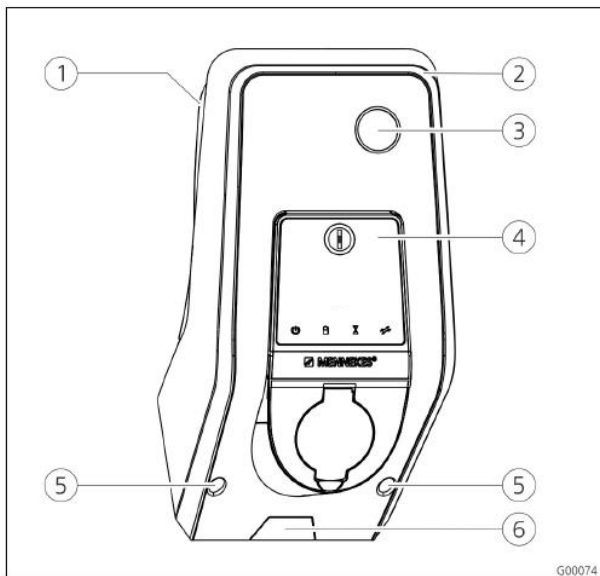
Variante	RCCB type B	CB
Start E (11 kW / 22 kW, 3 ph)	-	-
Light (11 kW / 22 kW, 3 ph)	X	X

Note the following when connecting the charging station:

- Each charging station must be connected using a separate residual current circuit breaker (RCCB) (see IEC 60364-7-722)
- Charging stations with integrated residual current circuit breaker are delivered with RCCB type B.
- No other circuits may be connected to this residual current circuit breaker.
- For versions Start E the residual current circuit breaker (RCCB) must be provided on site.
- For versions Start E the circuit breaker (CB) must be provided on site.

ASSEMBLY

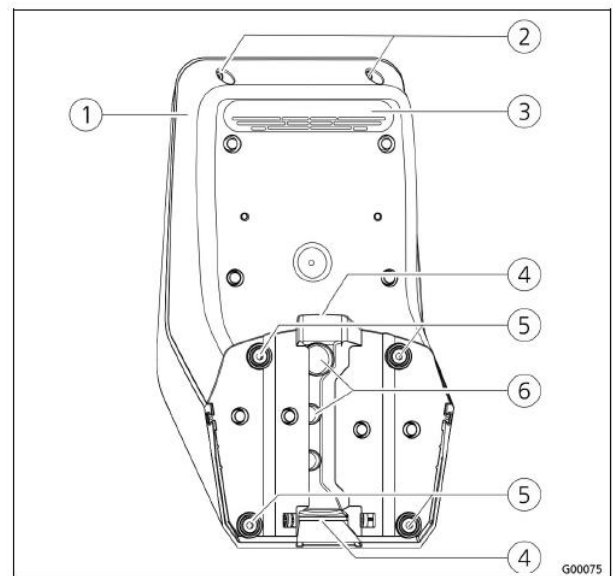
Front view (example)



- ① Rear enclosure part
- ② Front enclosure part
- ③ Window for counter¹⁾
- ④ Front panel
- ⑤ Fastening screws for front enclosure part
- ⑥ Predetermined breaking point for supply line / cable duct from below

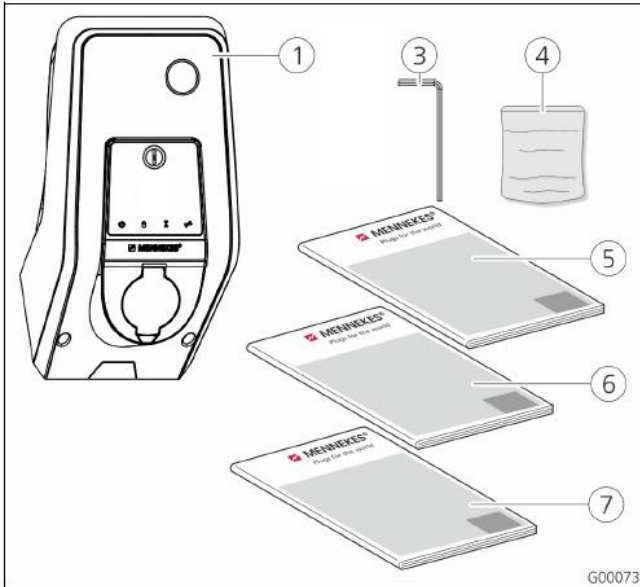
1) Only for versions Basic

Rear view (example)

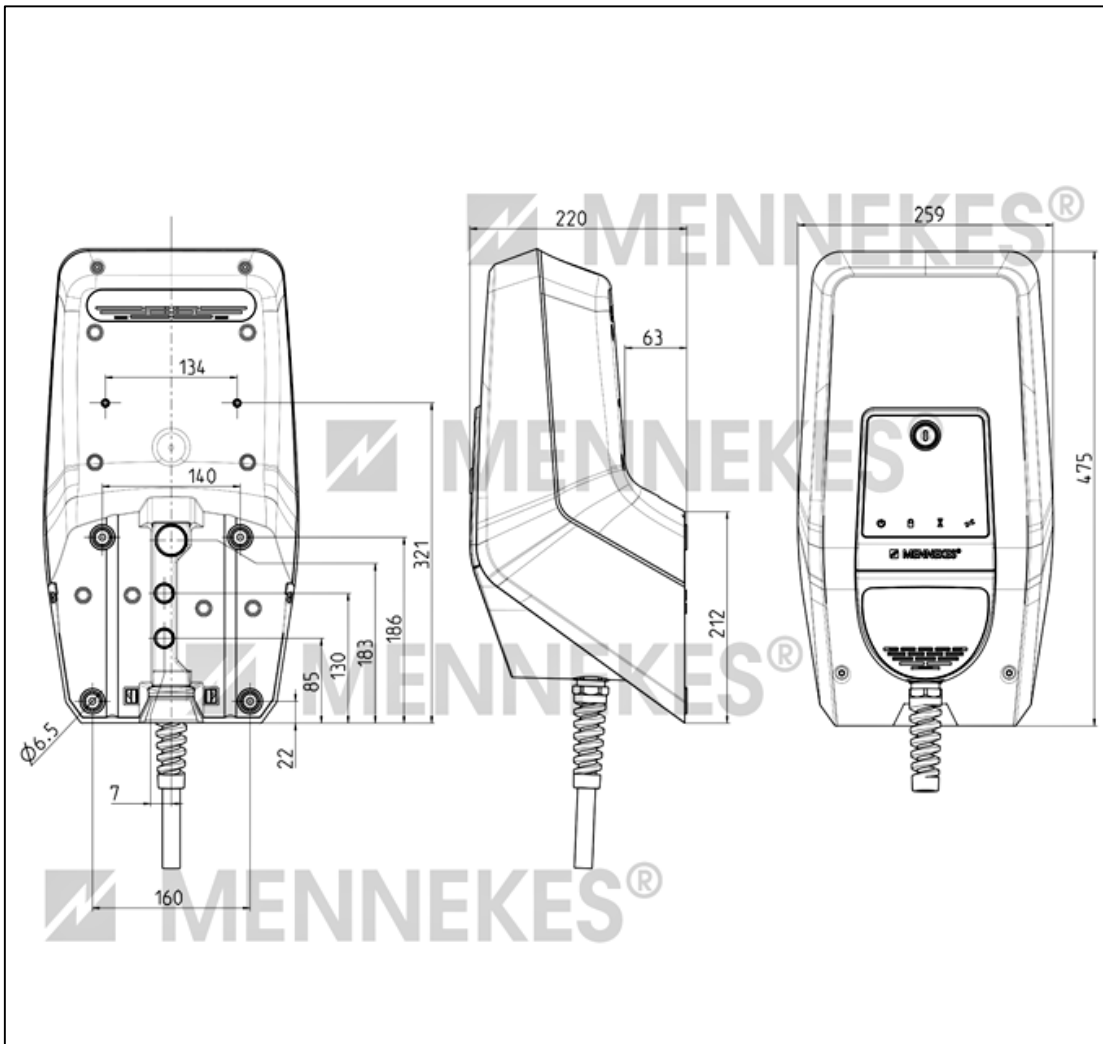


- ① Rear enclosure part
- ② Fastening screws for front enclosure part
- ③ Air outlet
- ④ Opening for cable duct
- ⑤ Fastening holes
- ⑥ Cable glands

DELIVERY CONTENTS



DIMENSIONS



Notice for external activation and potential-free contacts

Beside the terminal block for the power supply, there are further terminals for the connection of external signals and potential-free contacts. The configuration of the operating mode is carried out via DIP-switches.

Configuration via DIP-switches

	SW1	SW2	SW3	SW4	SW5	SW6	SW7	SW8
ON								
OFF	■	■	■	■	■	■	■	■

Dip-switch SW1 - SW7 (see Installation manual)

The external activation is carried out via the DIP- switch SW7. Additionally the type of authorization can be selected between pulse signal and permanent signal via the DIP-switch SW8.

External activation

<p>Terminal 0,75...4 mm²</p>	<p>Activation is performed by applying an external voltage signal 230 V AC.</p> <p>Activation externally activated: => SW07 = ON</p> <p>Activation using a pulse signal: => SW08 = OFF</p> <p>Activation using a permanent signal: => SW08 = ON</p>
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External protective earth connection

<p>Protective earth terminal 0,75...4 mm²</p>	<p>Is the voltage signal for activation (230 V AC) taken from a foreign supply network, the protective earth (PE) must not be connected to the protective earth terminal of the AMTRON®. Otherwise there would be compensating currents on the protective earth (PE).</p> <p>Is the voltage signal for activation (230 V AC) taken from the same supply network, the protective earth must be connected to the protective earth terminal of the AMTRON®. The protective earth (PE) has the same potential.</p> <p>Is the voltage signal for activation (230 V AC) directly taken from the AMTRON® and externally given to (e.g. ticket reader), the protective earth must be connected to the protective earth terminal of the external device (e.g. ticket readers).</p>
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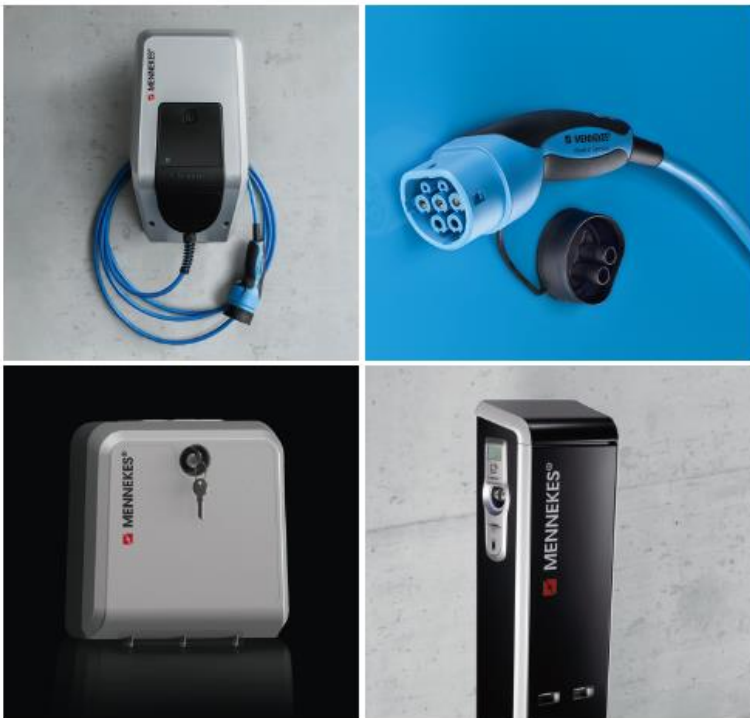
Activated contactor (State "C") via a potential-free contact

<p>Terminal 0,75...4 mm²</p>	<p>The AMTRON® charging system signalises an activated contactor (State "C") via a potential-free contact.</p> <p>In this status, the vehicle has the possibility to charge.</p>
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Vehicle connected (State "B") via a potential-free contact

<p>Terminal 0,75...4 mm²</p>	<p>The AMTRON® charging system signalises a connected vehicle (State "B") via a potential-free contact.</p> <p>In this status the charging cable is locked and the charging system communicates with the vehicle.</p>
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CHARGE UP YOUR DAY!



Thousands of MENNEKES charging points are in daily use in Europe, delighting users in their diverse life situations.

As an innovative leader we offer a broad portfolio of charging solutions for the private and public applications



Charge up your day with MENNEKES, the specialist for
Intelligent eMobility charging solutions.

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