

# AMTRON®

## 4You 310 22 C2

For charging electric vehicles in private areas



**MENNEKES**  
Elektrotechnik GmbH & Co. KG

Aloys-Mennekes-Straße 1  
57399 Kirchhundem  
GERMANY

[www.MENNEKES.org](http://www.MENNEKES.org)

# Equipment features

## General

- Mode 3 charging (IEC 61851-1)
- Plugs and sockets according to IEC 62196-2
- Maximum charging power: 22 kW
- Connection: 1-phase / 3-phase
- Max. charging power configurable by qualified electrician
- LED status indicator
- Switching of charging modes via button on the wallbox
- Energy saving mode for reduced standby consumption
- Permanently connected charging cable with type 2 (7.5 m)
- Integrated cable hanger
- Interchangeable Front Cover
- Color: midnight black

## Authorisation options

- Autostart (without authorisation)
- RFID (ISO / IEC 14443 A/B)  
Compatible with MIFARE classic and MIFARE DESFire

## Options for local load management

- Reduction of the charging current using an external switching contact (downgrade input)
- Reduction of the charging current in case of uneven phase load (unbalanced load limitation)
- Solar charging via an upstream, external energy meter
  - Solar charging for charging powers of 4,2 - 22 kW
- Local blackout by connecting an external Modbus RTU energy meter

## Options for connecting to an external energy management system (EMS)

- Via Modbus RTU

## Integrated protective devices

- DC residual current monitoring > 6 mA in accordance with IEC 62955
- Residual current circuit breaker must be installed upstream
- Circuit breaker must be installed upstream
- Switching output for controlling an external shunt release, in order to disconnect the charging point voltage from the mains in case of a fault (welded load contact, welding detection)

## Technical data

| AMTRON® 4You 310 22 C2                                |                  | 1313202205BK           |
|---|------------------|------------------------|
| Max. charging power Mode 3 [kW]                       | Charging point 1 | 22                     |
| Connection  | Charging point 1 | 1-phase / 3-phase      |
| Rated current $I_{nA}$ [A]                            |                  | 32                     |
| Rated current of a Mode 3 $I_{nC}$ charging point [A] |                  | 32                     |
| Rated voltage $U_N$ [V] AC $\pm 10\%$                 |                  | 230 / 400              |
| Rated frequency $f_N$ [Hz]                            |                  | 50                     |
| Max. back-up fuse [A]                                 |                  | 40                     |
| Rated insulation voltage $U_i$ [V]                    |                  | 500                    |
| Rated impulse withstand voltage $U_{imp}$ [kV]        |                  | 4                      |
| Conditional rated short-circuit current $I_{CC}$ [kA] |                  | 1.8                    |
| Rated diversity factor RDF                            |                  | 1                      |
| Types of system earthing                              |                  | TN/TT                  |
| EMC classification                                    |                  | A+B                    |
| Protection class                                      |                  | I                      |
| IP rating   |                  | IP54                   |
| Overvoltage category                                  |                  | III                    |
| Mechanical impact protection                          |                  | IK10                   |
| Contamination rating                                  |                  | 3                      |
| Installation  |                  | open air, interior     |
| Stationary / Mobile                                   |                  | fixed                  |
| Use (according to IEC 61439-7)                        |                  | ACSEV                  |
| External design                                       |                  | wall mounting          |
| Dimensions H x W x D [mm]                             |                  | 402.2 x 226.3 x 168.2  |
| Weight [g]  |                  | 5500                   |
| Standard  |                  | IEC 61851, IEC 61439-7 |

The specific standards according to which the product was tested can be found in the declaration of conformity for the product.

# Technical data

## Permissible ambient conditions

|   | Min. | Max. |
|---|------|------|
| Ambient temperature [°C]                      | -30  | 50   |
| Average temperature over 24 hours period [°C] |      | 35   |
| Altitude [m above sea level]                  |      | 2000 |
| Relative humidity [%]                         |      | 95   |

## Technical data

### Supply line terminal strip

|  |        |      |
|--|--------|------|
| Number of terminals                            | 5      |      |
| Conductor material                             | Copper |      |
|  | Min.   | Max. |
| Clamping range - rigid [mm <sup>2</sup> ]      | 0.2    | 10   |
| Clamping range - flexible [mm <sup>2</sup> ]   | 0.2    | 10   |
| Clamping range with ferrule [mm <sup>2</sup> ] | 0.2    | 6    |
| Tightening torque [Nm]                         | 0.8    | 1.6  |

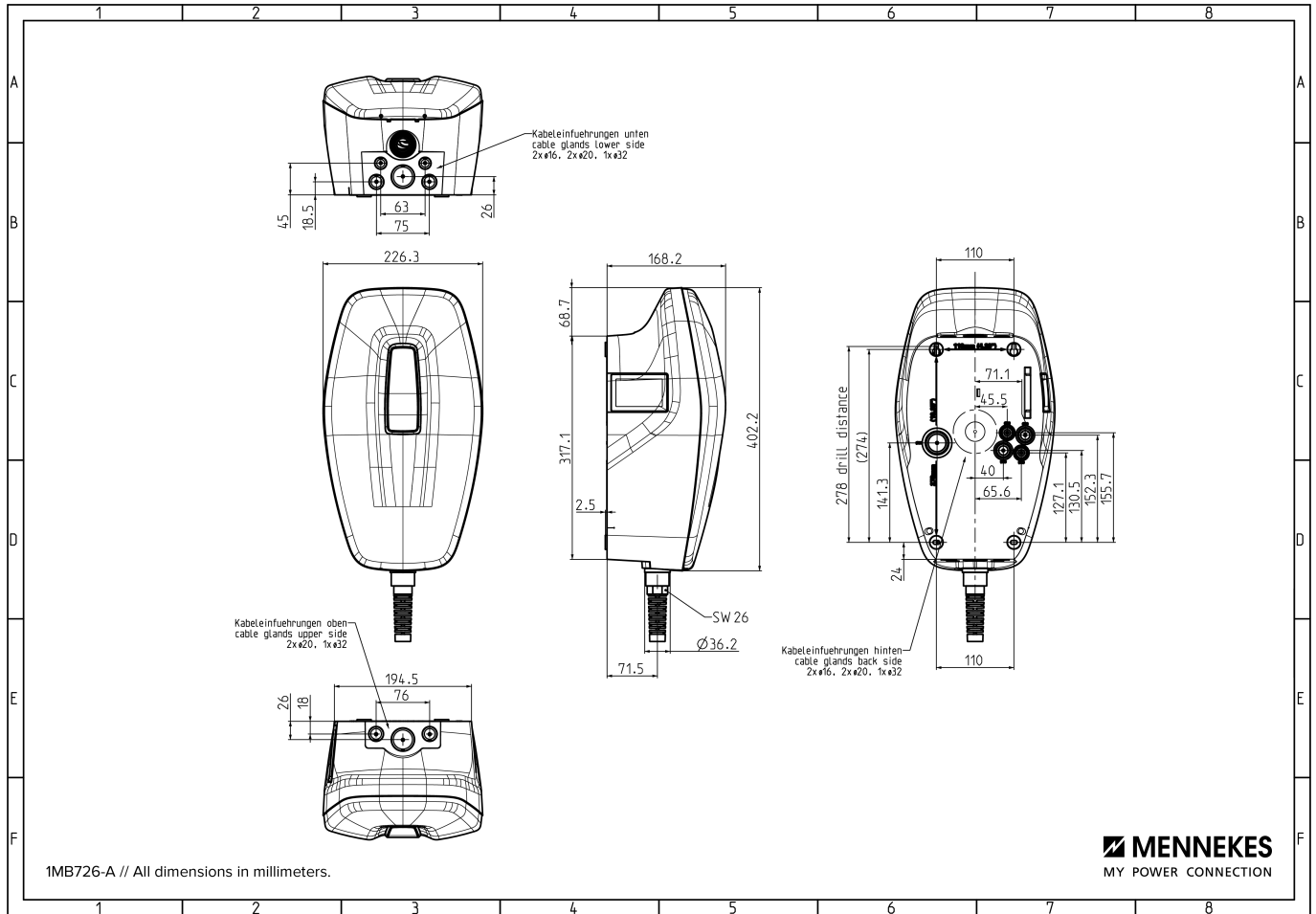
### Downgrade input terminals

|  |      |      |
|--|------|------|
| Number of terminals                            | 2    |      |
|  | Min. | Max. |
| Clamping range - rigid [mm <sup>2</sup> ]      | 0.5  | 4    |
| Clamping range - flexible [mm <sup>2</sup> ]   | 0.5  | 4    |
| Clamping range with ferrule [mm <sup>2</sup> ] | 0.5  | 2.5  |
| Tightening torque [Nm]                         | -    | -    |

### Switching output für shunt release terminals

|  |      |      |
|--|------|------|
| Number of terminals                            | 2    |      |
| Max. switching voltage [V] AC                  | 230  |      |
| Max. switching voltage [V] DC                  | 24   |      |
| Max. switching current [A]                     | 1    |      |
|  | Min. | Max. |
| Clamping range - rigid [mm <sup>2</sup> ]      | 0.5  | 4    |
| Clamping range - flexible [mm <sup>2</sup> ]   | 0.5  | 4    |
| Clamping range with ferrule [mm <sup>2</sup> ] | 0.5  | 2.5  |
| Tightening torque [Nm]                         | -    | -    |

# Dimensional drawing



# Example

