MENNEKES

MY POWER CONNECTION

Operator: _____

Address: _____

Postal code: _____

Location: _____

Date: _____

Charging station identification

Type (e.g. Smart 22,
eMobility Gateway): _____

Serial number: _____

Firmware version: _____

Short description (project name / project number / installation loca-
tion (e.g. parking garage, floor F, parking space 117) / connection to a
backend system or MENNEKES ativo):

_____

_____

_____

_____

**Identification of energy metres compliant with calibration law
(if necessary)**

Year of manufacture of the meter:

_____

Type designation of the meter (e.g. eHZ-KW8E2A5L0EF2P or
EM2389):

_____

Serial number of the meter (e.g. 09-45-4d-48-00-Fd-C9-31-02-E1 or
ZJ5403660002):

_____

![MENNEKES logo] **MENNEKES**

MY POWER CONNECTION

Maintenance may only be performed by a qualified electrician.

For charging stations that comply with calibration law, the following applies:

Work on components that are subject to calibration law may only be performed by a **certified** service technician. Otherwise the charging station is no longer compliant with calibration law. All the necessary information is available on request.

Operating and installation manual

Notes on performing the individual steps and on safety, e.g. warning notices are not described here, but can only be found in the operating and installation manual for the respective charging station.

	OK
The operating and installation manual, especially the chapters / sections related to safety, has been read and understood.	☐

Maintenance intervals

Select the maintenance intervals with due consideration of the following aspects:

- Age and condition of the device
- Environmental influences
- Mechanical stress
- Last test reports

The following maintenance work must be carried out at least every six months or annually.

1. Maintenance work that must be carried out at least every six months.

![MENNEKES — MY POWER CONNECTION]

1.1 Housing exterior

Maintenance work	Remark	OK
Visual inspection for defects and damage carried out.		☐
Lock function checked (e.g. cover lock, front panel lock). ▶ Clean, grease and adjust locks if necessary.		☐
Charging station checked for cleanliness. ▶ Clean charging station if necessary.		☐

1.2 Housing interior

Maintenance work	Remark	OK
Charging station checked for foreign objects. ▶ Remove foreign objects if necessary. ⚠ Note for a charging column: If an insect infestation is found, the charging column can be filled with a base filler (e.g. expanded clay, 4 mm … 8 mm grain size, approx. 5 litres).		☐
Visual inspection for dryness carried out. ▶ Remove foreign objects from the seal if necessary. ▶ Drain the charging station if necessary. ▶ Carry out a function test if necessary.		☐
Check the fastening to the foundation and/or wall. ▶ Retighten bolts if necessary.		☐
Connection to earthing system checked.		☐
For charging stations compliant with calibration law: Visual inspection of components relevant to calibration for presence and damage performed (e.g. QR code (public key), seal sticker, lead seal).		☐

1.3   Socket panel / charging socket (if present)

Maintenance work	Remark	OK
Function and legibility of the display / LED info field checked.		☐
Hinged lid / swing flap / shutter checked for ease of movement and complete closing.		☐
Swing flap lock checked (if present).		☐
Function of key-operated switch checked (if present).		☐
Charging socket contacts checked for contamination and foreign objects. ▶ Clean charging socket and remove foreign objects if necessary.		☐
Check the socket drainage for tight fit and free flow of hoses.		☐

1.4   Charging cable (if present)

Maintenance work	Remark	OK
Visual inspection carried out for observable defects (e.g. kinks, cracks).		☐
Charging cable checked for cleanliness and foreign objects. ▶ Clean charging cable and remove foreign objects if necessary.		☐

1.5 Electrical switching and safety devices

Maintenance work	Remark	OK
Visual inspection carried out for observable defects (residual current device, line circuit breaker, contactors, phase sequence measuring relay, etc.).		☐
Function of residual current device checked. Press the test button for this purpose.		☐

1.6 Ventilation system (if present)

Maintenance work	Remark	OK
Both filter mats checked (at the fan and air outlet opening). ▶ Replace filter mats if necessary.		☐
Fan checked. ▶ Replace the fan if necessary. ⚠ Note: Down-regulate the thermostat for testing.		☐

1.7 Lighting for the energy meters (for AMEDIO charging stations compliant with calibration law)

Maintenance work	Remark	OK
Lighting checked for function. ▶ Replace the lamps if necessary. ▶ Observe EN 55015 when replacing. Recommendation: Osram ST PIN 10 0.9 W/2700K G4 CL		☐

2. Maintenance work that must be carried out at least once annually.

Maintenance work	Remark	OK
Foundation checked (if present).		☐
Supply line terminals checked. ▶ Retighten terminals if necessary.		☐

2.1 Electrical system

Maintenance work	Remark	OK
Inspection of the electrical system in accordance with IEC 60364-6 and the respective applicable national regulations (e.g. DIN VDE 0105-100 in Germany).		☐
■ Protection against direct contact		☐
■ Protection against indirect contact		☐
■ Overcurrent and surge protection		☐
■ Documents (e.g. circuit diagrams, instructions) and safety stickers complete		☐

2.2 Repetition of measurements and tests according to IEC 60364-6

Tasks	OK
Repetition of measurements and tests according to IEC 60364-6 and the applicable national regulations (e.g. DIN VDE 0105-100 in Germany) performed and documented. * ■ Residual current device tripping current [mA]: _____ / _____ ■ Residual current device switch-off time [ms]: _____ / _____ ■ Earthing resistance [Ω]: _____ ■ Mains configuration: _____ ■ Voltage measurement [V]: _____ ■ Rotating field direction: _____ / _____ ■ Continuity of the protective conductor: _____ ■ Loop impedance: _____	☐
Function check and load simulation performed via the MENNEKES test box.	☐
■ Status A (No vehicle connected)	☐
■ Status B (Vehicle connected but not ready to charge)	☐
■ Status C (Vehicle connected and ready to charge, ventilation not required)	☐
■ Status D (Vehicle connected and ready to charge, ventilation required (gassing batteries))	☐
■ Status E (Error - short circuit between CP and PE)	☐

* external test reports can be attached to this document.

2.3 Calibration validity (for charging stations that comply with calibration law)

Maintenance work	Remark	OK
Calibration validity checked. ▶ Have the charging station recalibrated if necessary. ⚠ Note: The calibration validity period is specified by measurement and calibration law. The start time of the calibration validity period is the year of manufacture of the meter and the year of manufacture of the charging station (see name plate).		☐

2.4 Lighting for the energy meters (for AMEDIO charging stations compliant with calibration law)

Maintenance work	Remark	OK
▶ Replace the lamps (preventive measure). ▶ Observe EN 55015 when replacing. Recommendation: Osram ST PIN 10 0.9 W/2700K G4 CL		☐

3. Maintenance performed (please complete)

Tasks	OK
Customer informed that the charging station must be checked for external damage daily / on every charge.	☐
No defects found. If defects / open points were found, write them down here: _____ _____ _____ _____	☐

Maintenance company contact details

Maintenance company: _____

Name of technician: _____

Telephone number: _____

Email: _____

Driving directions

Driving distance in km: _____

Home location: _____

Working time, service

from _____ o'clock to _____ o'clock

For the customer (noted)

Name: _____

Date: _____

Signature / stamp: _____

For the maintenance company (activities were performed in accordance with this document)

Name: _____

Date: _____

Signature / stamp: _____

Remarks