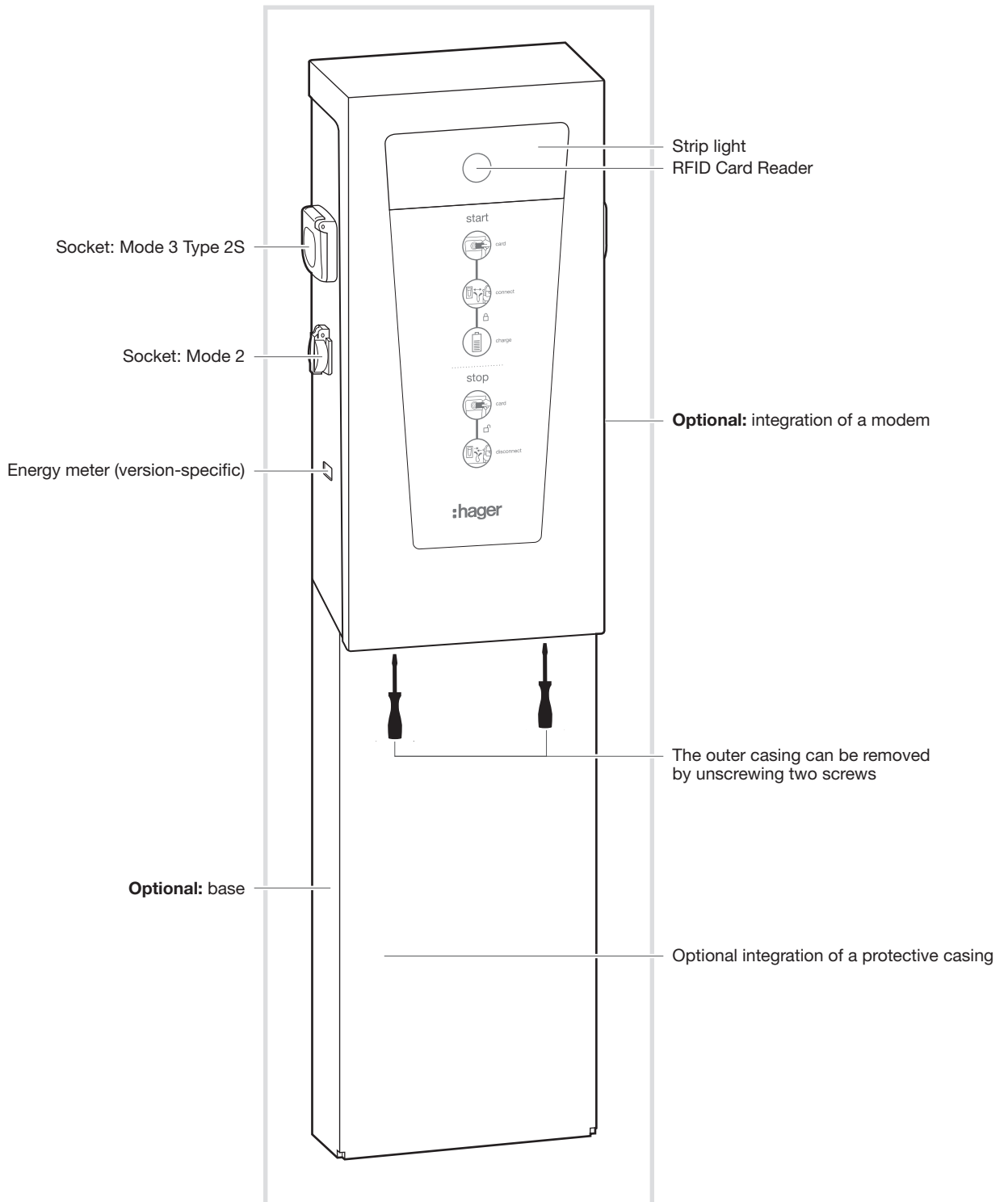


Hager witty park XEV6xx

1.1. General description



1.2. Introduction

The purpose of this document is to provide a service frame to ensure a trouble-free operation for the end user. On this basis, the operator can adapt its maintenance based on his own experience.

2. Cautions



Warning !

- Read all precautions before using this charging station.
- The charging station can in no case be used for a function other than that provided by the designer. Any modification of the equipment is the sole responsibility of the customer of the charging station.
- Replace any damaged cable - cables must be in perfect condition.
- The charging station is designed for inside or outside use with electric vehicles for which no ventilation is required.
- This charging station is intended for electric vehicles compatible with the IEC 61 851 only (this information is specified in the vehicle manual).
- Use only cable types recommended in the country of use of the charging station.
- No intervention on the charging cable is tolerated.



Prohibitions !

It is strictly forbidden, to...:

- ...access inside the charging station during operation.
- ...mount on top of equipment and devices.
- ...remove or hide the safety and danger signs.
- ...use the charging station when access doors are open, protections are removed / damaged or glass is broken.
- ... use the charging station with safety devices removed or intentionally shorted.
- ... use the charging station despite error messages.
- ... use the charging station under conditions other than those authorised.
- ... use the charging station when any product leaks, smoke appears, or unusual sounds occur.
- ...connect anything other than a vehicle running in electric mode 1, 2 or 3.
- ... use an extension cord.
- ... connect a charging cable on the charging station if the red light is on.
- ... introduce an element in the electric vehicle connector, the charging station or charging cable.
- ... park outside the recharge sites dedicated to electric vehicles.
- ... let untrained or unauthorised personnel maintain the charging station.
- ... undertake any change to the charging station.
- ...use the charging station while servicing or maintenance has not been performed
- ...prevent free access to user interfaces, operating equipment, emergency stop or reserved areas.

Failure guidelines engage the total liability of the operator!

3. Risk management

Risk assessment in the design of the equipment has put forward the following hazards:

- MECHANICAL
- ELECTRIC




These hazards and associated risks have been taken into account in the design of the charging station to integrate maximum health prevention and user safety.

The operator agrees to train people to maintain the charging station against the risks generated by the charging station. It will also ensure that only trained personnel are allowed to maintain it.

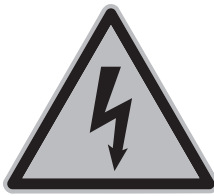


This training will take into account all prevention and safety instructions specified in the instruction manual, especially the residual risks reported by pictograms hazardous points.

3.1. Hazards & preventive measures



Crushing

	<p>Warning ! Risk when handling packages and trays / components, during maintenance and adjustment.</p>
	<p>Wear protective gloves appropriate to the risks.</p>
	<p>No entry, when operating the station. Observe the station before any intervention.</p>



Electrical shock

	<p>Warning ! The risk associated with electrical installations is particularly present inside cabinets and at the connections of the equipment.</p>
	<p>Work on electrical installations may only be carried out by trained and competent staff.</p>
	<p>No interventions to live parts. Cut-off the main power using the circuit-breaker, and secure the intervention site. Electrical power will still be upstream of the circuit-breaker. Check for voltage before proceeding. Ensure that nobody is in operation on the station before reconnecting.</p>



Lacerating

	<p>Warning ! Risk of injury by edge / cutting tool or blunt things.</p>
	<p>Wear protective gloves appropriate to the risks.</p>



Fall on level ground

	<p>Warning ! Falling Risk.</p>
	<p>Ensuring permanent cleanliness and storage of work areas. Observe the markings that delineate the work areas from those of access and movement. Ensuring storing the cable in its housing when it is not used to charge an electric vehicle.</p>



Fall by lowering

	<p>Warning ! Risk of falling.</p>
	<p>It is strictly forbidden to climb on the stations.</p>


Slip accidents

	<p>Warning ! Falling Risk.</p>
	<p>All factors causing risk of falls due to slipping for example, oils, spilled liquids, slurries, reserve screw boxes, charging cable on the floor etc.) should be removed immediately.</p>

Manual or Automatic cycle start Risk

	<p>Warning ! Risk of crushing, shock and electrical shock.</p>
	<p>Before any work, wait until the end of the cycle. Before starting the station, make sure that nobody is present in the work / danger zone.</p>

4. Training & Safety Awareness


	<p>Warning ! Standard EN 50110-1/-2 is a set of security-related requirements for maneuvers and activities on or near electrical installations:</p> <ul style="list-style-type: none"> • The EN 50110-1/-2 set is the technical reference document for the control of operations close to an electrical hazard. It defines the obligations and responsibilities of owners, school leaders and stakeholders. It describes the clearances necessary securities for each type of intervention according to voltage ranges. • All persons who, as part of their work, have access or near electrical circuits, need specific training. This training is designed to inform them about dangers of electricity and to teach them to protect themselves. Electricians are of course the first concerned, but it also concerns all those whose work are closely related to electrical installations. • This training is completed by the delivery of a prequalification. Based on it, the employer may issue an authorisation for staff to work on or near electrical installations or perform maneuvers on electrical circuits.
--	--

The charging station can only completely fulfil its functions when the staff have the skills and knowledge required to settle, lead and assure the maintenance of all parts of the station.

The operator shall ensure that:

- Interventions requiring specific knowledge (electrical, mechanical, civil engineering) are performed by personnel specially trained and equipped for this work.
- Any person being entrusted with the handling of the charging station, including managers, are trained in safety instructions.
- Training is ensured by qualified and recognised staff based on the use and maintenance instructions.
- The safety instructions, the presence of signage, visibility and readability are maintained over time.
- The instructions for use and maintenance are made available to all personnel on this equipment.
- Safety rules specified in the operating and maintenance instructions are fully respected.
- All safety equipment is maintained in good condition and functional.

4.1. Skills Recognition

	<p>The operator needs to train his/her employees appropriately and comprehensively. Thus, an evaluation with recognition of skills (empowerment, authorisation) is required.</p>
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5. Maintenance



5.1. General instructions

The inspection and maintenance plan defines clear responsibilities and authorisations for various maintenance works.

Before any intervention, make sure that you are in possession of proper tools in good condition. It is mandatory to have a BR- electrical qualification of any intervener for the operations described in the "Maintenance" section.

A maintenance file must be filled, dated and signed by the person who made the audit. A copy of the results will be sent to the operation manager that will ensure compliance and traceability.

5.2. Cleaning





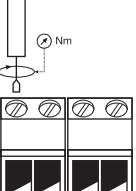
	<p>Prior to any work, clean the station. Only use non-corrosive cleaning agents and lint-free cloths. Do not use flammable liquids to clean the station. Before cleaning: Close or recover all openings through which the cleaning fluid could enter, for reasons of safety and / or operation. After cleaning: Completely remove the protections. Check the tightness of the pipes, tighten the couplings. Immediately remedy any defects found.</p>
	<p>Warning ! Cleaning with high-pressure cleaner is strictly prohibited.</p>

5.3. Intervention Area Identification

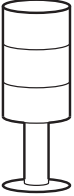
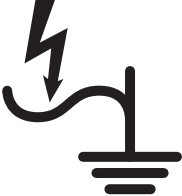
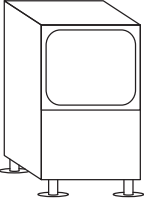
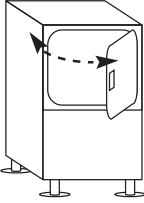
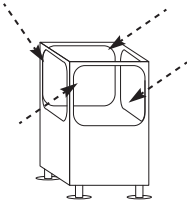
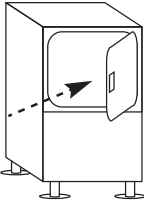
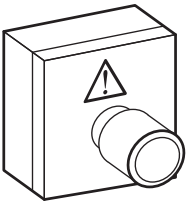
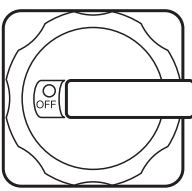
- Secure the positions of the protective switches and circuit breakers.
- Inform responsible and nearby operators.
- Secure the intervention area.
- Affix the appropriate signage.
- Sichern Sie die Positionen der Schutzschalter und Sicherungsautomaten.
- Informieren Sie Verantwortliche und in der Nähe arbeitende Personen.
- Sichern sie den Arbeitsbereich ab.
- Bringen Sie entsprechende Beschilderung an.

5.4. Legend

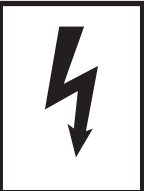
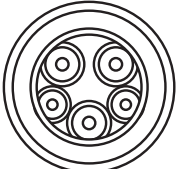
Operation Symbols

SY	Descriptions	SY	Descriptions
	Manually clean		Visual check
	Check operation. Adjust or repair if necessary.		Check the tightening torque Tighten if necessary.
	Check / tighten the screw terminal blocks.		



Security Symbols

SY	Descriptions	SY	Descriptions
	Warning lights		Earth connector
	Static security devices		Mobile safety devices and safety sensors
	Windows / hoods		Work area – inside station
	Emergency stops and key		Differential circuit breaker

Energy Symbols

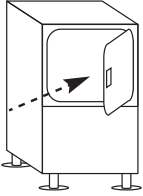




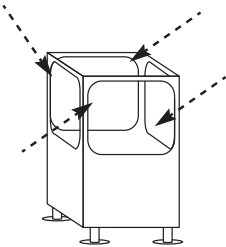



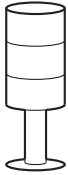



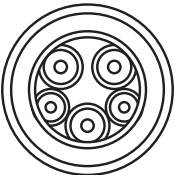



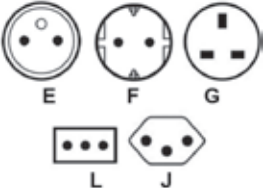



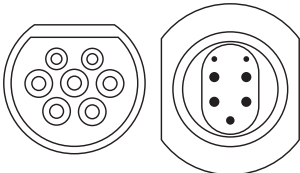



SY	Descriptions	SY	Descriptions
	Electrical cabinet		Charging cable with plug

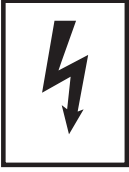
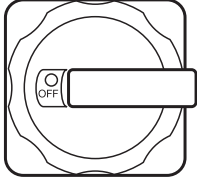


Station Status Symbols

SY	Descriptions	SY	Descriptions
	In use		Stopped Machine

6. Monthly Preventive Maintenance

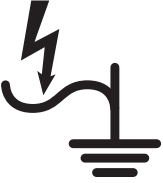







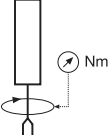
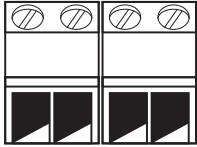


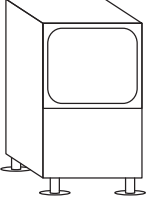



The nature of preventive maintenance services is as follows :

Function	Description	Action	Description	Level	Duration	Freq.	Security	Details
	Area accessible to customers	 	Absence of breakage, oxidation, sticker or tag. Cleaning and dusting	Operator		1x/ Month	Machine in use	
	Windows / hoods		Cleaning the body, glass or plexiglass and possible replacement of information stickers	Operator		1x/ Month	Machine in use	
	LED states LCD screen		Check operation - Inform the Site Manager if necessary	Technician		1x/ Month	Machine in use	
	Charging cable with plug		Check the condition of the cable, contact points and the cable clamp (the cable is disconnected from the charging station). Replace the cable if necessary	Technician		1x/ Month	Machine in use	
	Socket outlet Mode 2		Check the conformity of the electrical outlet, the absence of deformation burning, breakage or blocking of child protection. Inform the Site Manager if necessary	Technician		1x/ Month	Machine in use	
	Type 2 – Type 3 Socket outlet Mode 3		Check the conformity of the electrical outlet, the absence of deformation burning, breakage or blocking of child protection. Inform the Site Manager if necessary	Technician		1x/ Month	Machine in use	

Function	Description	Action	Description	Level	Duration	Freq.	Security	Details
	Electrical cabinet		Checking protections - Test the differential function using the test button monthly.	Technician		1x/ Month	Machine in use	

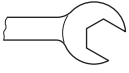
7. Annual Preventive Maintenance

In addition to the monthly check, thank you to the following checks:

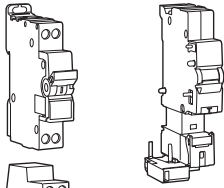
Function	Description	Action	Description	Level	Duration	Freq.	Security	Details
 Earth connector 	To be included in the periodic inspection schedule of the General building installation.	 Circuit Check 	Ground resistance measuring	Technician		1x/ Year	Stopped Machine	
 Electrical cabinet and charging station 	To be included in the periodic inspection schedule of the General building installation.	 Nm 	Check / tighten the screw terminal blocks	Technician		1x/ Year	Stopped Machine	
	Static security devices		Check the brackets to the wall or floor. Check tightness and corrosion state.	Technician		1x/ Year	Stopped Machine	

8. Torques

Tightening torques



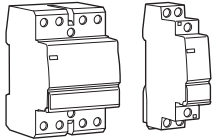
Circuit breaker:
2 N.m



Meter:
2 N.m



Contactors:
3 N.m

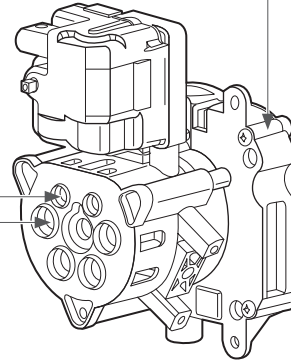


CP/PP:
0.4 N.m

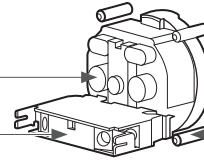
PE/L1/L2/L3/N:
1.2 N.m

PE/L1/N:
0.8 N.m

Contactors:
0.4 N.m



Assembly
M3T2S:
0.6 N.m



Assembly M2:
0.5 N.m

9. Decommissioning

Disassembly / separation / disposal / recycling

Contact a specialised agency for this operation and comply with the standards and laws for the treatment of fluids and materials.

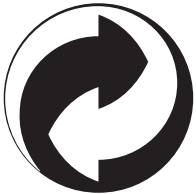


Warning !

Treat all workers and materials in accordance with international law and their national transpositions.

Directive 2004/35 / EC of 21 April, on environmental liability with regard to the prevention and remedying of environmental damage.

Directive 2002/96 / EC of the European Parliament and Council of 27 January 2003 on waste electrical and electronic equipment (WEEE).



10. Terminology

A.U	Emergency switch
CTRL	Control
LCD	Liquid Crystal Display
LED	Light Emitting Diode
RFID	Radio Frequency Identification / RFID System

11. Decommissioning

Installation Standards

NF C 14-100	Category one connection facilities located between the distribution network and the source of the internal installations.
NF C 15-100 VDE 0100	Low voltage electrical installations.
NF EN 62-305	Protection from lightning.
CEI (IEC) 60364-1	Low voltage electrical installations - Basic principles, determining the general characteristics, definitions.
CEI (IEC) 60364-4-41	Electrical installations of buildings – Part 4-41: Protection for ensuring safety – Protection from electric shocks.
IEC 61439	Niederspannungsschaltgerätekombinationen

Standards for Equipment used in EVSE (Electric Vehicle Supply Equipment)

NF EN 61851-1 DIN EN 61851-1 VDE 0122-1	Conductive charging system for electric vehicles. Part 1: General information.
CEI (IEC) 61851-21	Conductive charging system for electric vehicles. Part 21: Requirements concerning the electric vehicle for the conductive connection to an alternating or direct current power source.
CEI (IEC) 61851-22 EN 61851-22	Conductive charging system for electric vehicles. Part 22: Alternating current conductive charging station for electric vehicles.
NF EN 62196-1 EN 62196-1	Plugs, socket outlets, removable plugs and appliance inlets for vehicles – Conductive charging of electric vehicles.
NF EN 62056-31 EN 62056-31	Electricity metering - Data exchange for reading the meters, tariff control and charges - Part 31: Use of local networks on twisted pair cables with carrier signal.
CEI (IEC) 60245-1	Rubber-insulated conductors and cables – Legal maximum rated voltage at 450/750 V – Part 1: General requirements.
NF EN 60529 EN 60529	Degrees of protection provided by the enclosures of electrical equipment against the penetration of solid foreign bodies and water (IP code).
NF EN 62262 EN 62262	Degrees of protection provided by the enclosures of electrical equipment against external mechanical impacts (IK code).

Standards for Electromagnetic compatibility (EMC)

CEI (IEC) 61000-3-2	EMC – Limits - Limits for harmonic current emissions in low-voltage networks for equipment with a rated current of less than or equal to 16 A.
CEI (IEC) 61000-3-4	EMC – Limits - Limits for harmonic current emissions in low-voltage networks for equipment with a rated current of more than 16 A.
NF EN 55022 (CISPR 16) EN 55022	Information technology equipment. – Radio disturbance characteristics - Limits and methods of measurement.
NF EN 55024 EN 55024	Information technology equipment. – Immunity characteristics - Limits and methods of measurement.
CISPR 16	Specifications for radio disturbance and immunity measurement apparatus and methods.
CISPR 22	Information technology equipment - Electrical disturbance characteristics - Limits and methods of measurement.

12. Precautions for assembly



Please refer to the maintenance manual before starting the installation of the charging station. This device is to be installed only by a professional electrician fitter according to local applicable installation standards. Conform to TBTS installation rules.

All information pertaining to the installation (assembly, electrical connection and configuration), connection to the servers as well as the use and maintenance of the terminals are provided in the USB key provided with the terminals and on the Hager website of your country.



Correct Disposal of this product
(Waste Electrical & Electronic Equipment).



(Applicable in the European Union and other European countries with separate collection systems).

This marking shown on the product or its literature indicates that it should not be disposed with other household waste at the end of its working life. To prevent possible harm to the environment or human health from uncontrolled waste disposal, please separate this from other types of wastes and recycle it responsibly to promote the sustainable reuse of material resources.

Household users should contact either the retailer where they purchased this product, or their local government office, for details of where and how they can take this device for environmentally safe recycling.

Business users should contact their supplier and check the terms and conditions of the purchase contract. This product should not be mixed with other commercial wastes of disposal.

Usable in all Europe  and in Switzerland