



<b>Operating manual</b>		<b>High-voltage testing adapter VAS 6558A/30</b>		
Customer documentation	Revision: 00	Version: 07/2018		

# Operating manual


## High-voltage testing adapter VAS 6558A/30



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## Imprint

<b>Title:</b>	Operating manual of high-voltage testing adapter VAS 6558A/30
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## 1 General

### 1.1 Notes on the manual

#### State of the art

The testing adapter corresponds to the current state of the art. For safe operation of the equipment, you should operate it in a professional and safety-conscious way.

#### Reading the operating manual

Read the operating manual carefully and thoroughly before using the testing adapter. The operating manual is binding for every application case described. It explains the intended use of the testing adapter.

#### Action

All steps of action and application necessary for the correct operation of the device are described in this operating manual and in the referenced documents.

Deviating work instructions must be approved expressly by the manufacturer.

Use the testing adapter only as intended in order to avoid personal injury and property damage.

#### General information







Testing, installation and repair work may only be performed by staff trained by the manufacturer. If faults occur, only those faults may be remedied independently, for which the corresponding maintenance processes are marked in the manufacturer's training documents.


## 1.2 Legend of the icons in this operating manual

Follow all instruction and safety rules in this operating manual.





In this operating manual, some sections are marked with internationally known warning symbols, hazard warnings and general mandatory signs.




The individual pictograms are explained below.


	Follow the operating manual		High voltage! Caution: Risk of fatal injury!
	Follow general instructions		Warning of dangerous electrical voltage
	Prohibition for people with pacemakers		Please note the following!

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### 1.3 Markings on the testing adapter VAS 6558A/30

	CE-marking
	Do not dispose of in the household waste
	High voltage Caution! Fatal hazard
	Quality approval mark with serial number

	Protective insulation (protection class II)
	Read the operating manual before use
	Type designation with markings

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## 2 Engineering

### 2.1 Mode of operation

The VAS 6558A/30 is a testing adapter for measurement of the absence of voltage on high-voltage system. It is used in electric vehicles in conjunction with the high-voltage measuring module VAS 6558A for checking the power measurements between the charger and the power electronics.



The high-voltage test adapter VAS 6558A/30 can be used to check the absence of voltage directly via the high-voltage cables without exposing further high-voltage components on the high-voltage battery. Using the high-voltage testing adapter and the high-voltage measuring module VAS 6558A/30, the following measurements can be conducted on the high-voltage system:

1. Measurement of the absence of voltage  
Measurement of the absence of voltage at the measurement sockets of the high-voltage testing adapter VAS 6558A/30
  - a. between HV+ and HV-
  - b. between HV+ and vehicle ground
  - c. between HV- and vehicle ground
2. Insulation resistance measurement (high-voltage lines, charger)
3. Continuity measurement (high-voltage lines)
4. Equipotential bonding measurement

### 2.2 Safety instructions




The high-voltage testing adapter described here is intended exclusively to determine measured values in conjunction with the high-voltage measuring module VAS 6558A. The diagnostic adapter may only be used for such purposes, but do not signify any danger to man or machine.

Use the high-voltage testing adapter set VAS 6558A/30 only as described in the operating manual!

Every change to the test adapters as well as any other application than described are in the scope of responsibility of the operator.



- Make sure that the testing adapter set (VAS 6558A und VAS 6558A/30) is in perfect condition and all functions are guaranteed for safe operation.
- Follow the accident prevention regulations applicable in the respective countries.
- Wear your personal protective equipment when working on the high-voltage battery.

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Follow the following general instructions:



- Never throw or drop the high-voltage testing adapter VAS 6558A/30.
- Never use the high-voltage testing adapter VAS 6558A/30 for purposes other than the intended ones and do not let untrained staff use it!
- Make sure that the high-voltage testing adapter set VAS 6558A/30 is used in a work area which is free of heat sources (maximum 40 °C / 77 °F), corrosive fluids, oil, and fat.
- The high-voltage testing adapter VAS 6558A/30 must never be used in areas exposed to hazard of explosion.
- Make sure that the high voltage test adapter VAS 6558A/30 is placed on a non-slip surface and that the device cannot be damaged.
- Only use tools and accessories, which are not worn out and which have no damage.
- Tools or accessories with damage can result in serious injuries!

### 2.3 Maintenance and repair



The manufacturer shall not be liable for damages caused by improper repairs or use of non-original spare parts.

Incorrect operations of the testing adapter that lead to damage to the device shall make any warranty void.

If in doubt, always contact a professionally trained company or the CAR-connect company.

The corresponding contact address is in this manual.




- Replace components if the damage is visible. Damaged components may cause serious injuries!
- Check contacts and connections for damage.
- Only authorised personnel trained by CAR-connect are allowed to perform maintenance and repair work.

For more information about the service work and training, please contact us at our service address:

CAR-connect GmbH  
Am Egelingsberg 8  
D-38542 Leiferde  
Germany



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### 3 Unpacking manual

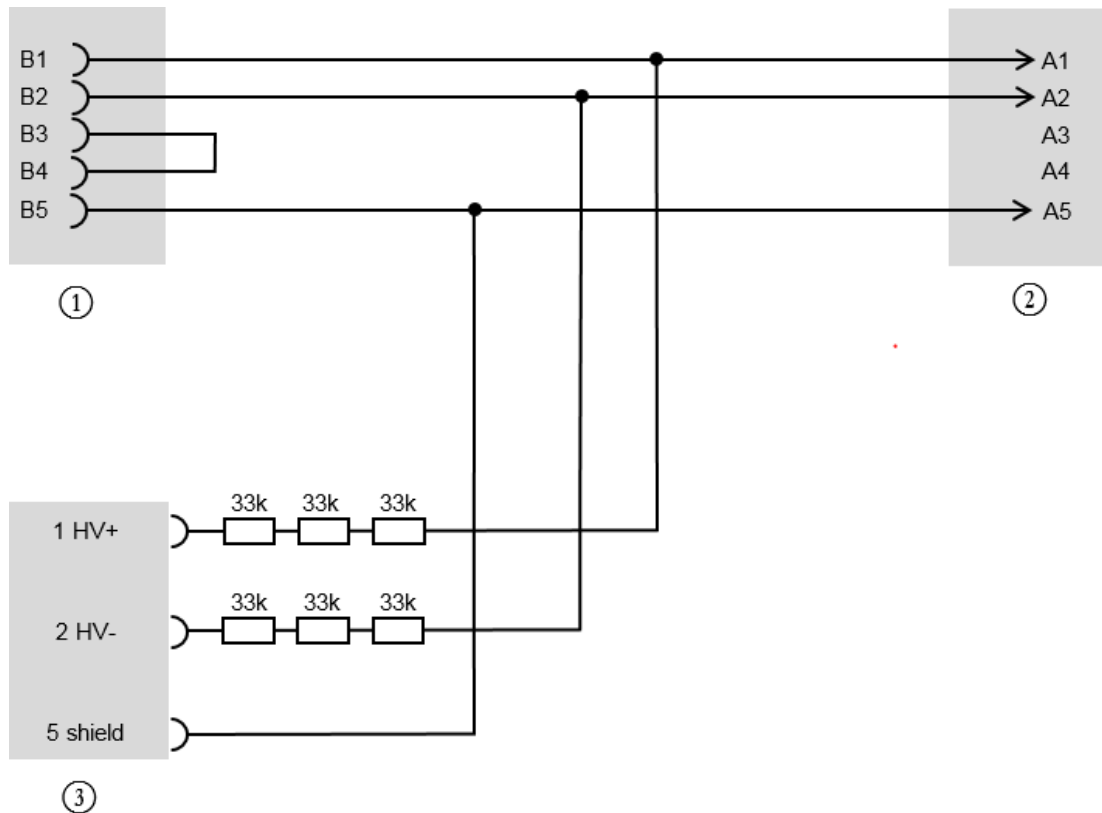



Packaging and scope of supply of VAS 6558A/30

#### Scope of supply

no.	Name	Number	VAS-no.	Article no.
B	High-voltage testing adapter	1	VAS 6558A/30	ASE 405 470 00 000
C	Storage and transport case (plastic)	1		
D	Operating manual in 37 languages (memory stick)	1		

## 4 Technical drawing



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## 5 Warranty



A warranty of 24 months is granted for diagnostic adapters of CAR-connect company against defects in material or workmanship. The warranty period begins on the date of delivery confirmed on the invoice or the delivery note. The warranty applies to the user/buyer if the diagnostic adapter is purchased from an authorised retail outlet and they are used as intended.




The warranty is void if the diagnostic adapter has been used for other purposes contrary to its intended use. Likewise, the warranty shall expire if the diagnostic adapters are not used as described in this operating manual.

In the case of defect or error, only faulty parts are repaired or replaced by CAR-connect at their discretion.

**Service address:**  
 CAR-connect GmbH  
 Am Egelingsberg 8  
 D-38542 Leiferde  
 Germany

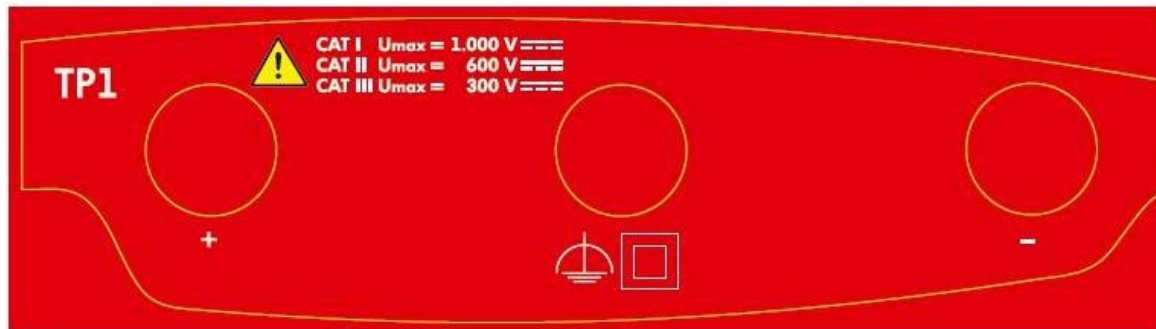
## 6 Storing the high-voltage testing adapter

Store the high-voltage testing adapter in its labelled storage case.

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## 7 Technical data

<b>Connection of measurement sockets:</b>	CAT I	1,000 V DC max.
	CAT II	600 V DC max.
	CAT III	300 V DC max.



**Maximum rated current:** 1 mA



Indoor use.



The high-voltage testing adapter VAS 6558A/30 can be used at temperature up to 50 °C.  
The high-voltage testing adapter VAS 6558A/30 is specified for a relative humidity up to 85%.  
The high-voltage testing adapter VAS 6558A/30 is specified for storage at -20 to 60 °C.

## 8 Cleaning and decontamination

Cleaning and decontamination are permitted only with a dry cloth.