



wiha CAT II Continuity Tester Instruction Manual

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Tools that work for you

CAT II Continuity Tester Instruction Manual

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CAT II Continuity Tester



**Continuity tester
400 V AC, CAT II
Order-No.: 45222**



References marked on instrument or in instruction manual



Warning of a potential danger, follow with instruction manual.



Caution! Dangerous voltage. Danger of electrical shock.



Reference! Please use utmost attention.



Continuous double or reinforced insulation category II IEC 536.



Complies with EU specifications.



Complies with UK specifications.



Instrument fulfill the standard (2012/19/EU) WEEE.

Introduction / Scope of supply



The instruction manual contains information and references, necessary for safe operation and maintenance of the instrument. Prior to using the instrument (commissioning / assembly) the user is kindly requested to thoroughly read the instruction manual and comply with it in all sections.



Failure to read the instruction manual or to follow with the warnings and references contained herein can result in serious bodily injury or instrument damage. The respective accident prevention regulations established by the professional associations are to be strictly enforced at all times.

The continuity tester 45222 is appropriate for continuity testing of electronic wiring, line networks, systems, instruments and components of a measurement impedance of 500 kΩ. It has 2 ranges, up to 10 Ω and up to 500 kΩ.

The instrument is equipped with an additional incorporated torch function with steady burning light, facilitating any testing in dark switch cabinets or in case of diffuse lighting.

- Acoustic and optical continuity indication
- Torch function
- Resistance ranges 10 Ω and up to 500 kΩ
- Test current up to 20 mA (low range)
- Fixed mounted test leads with test probes

Scope of supply

- 1x Continuity tester 45222
- 2x AAA batteries
- 1x Instruction manual

Transport and storage

Please keep the original packaging for later transport, e.g. for calibration. Any transport damage due to faulty packaging will be excluded from warranty claims.

Instruments must be stored in dry and closed areas.

In the case of an instrument being transported in extreme temperatures, a recovery time of minimum 2 hours is required prior to instrument operation.

Safety



The continuity tester 45222 has been constructed and verified in compliance with the latest safety standards for Test Instruments IEC/EN 61010-1 and IEC/ EN 61010-031 and have left the factory in safe and perfect conditions.



In order to avoid electrical shock, the valid safety and VDE regulations regarding excessive contact voltages must receive utmost attention, when working with voltages exceeding 120 V (60 V) DC or 50 V (25 V) rams AC. The values in brackets are valid for limited ranges (as for example medicine and agriculture).

Prior to usage ensure perfect instrument function. The device may only be used in specified measuring ranges.

If the operator's safety is no longer ensured, the instrument is to be put out of service and protected against use.

The safety can no longer be insured if the instrument

- shows obvious damage.
- does not carry out the desired measurements.

- has been stored for too long under unfavorable conditions.
- has been subjected to mechanical stress during transport.



The UUT must be voltage-free. Verify this condition, if unsure, by using a voltage tester equipped with a display.



The instruments are not appropriate for use in live circuits.



Only touch test leads and test probes at handles provided.



The tester complies with all EMC regulations. Nevertheless it can happen in rare cases that electric devices are disturbed by the electrical field of the tester or the tester is disturbed by electrical devices.



Never use the tester in explosive environment.



Tester must be operated by trained users only.



Avoid heating the device by direct sunlight. This is the only way to ensure proper functioning and a long service life.



When modifying or changing the instrument, the operational safety is no longer ensured. The device may only be opened for replacing the batteries.



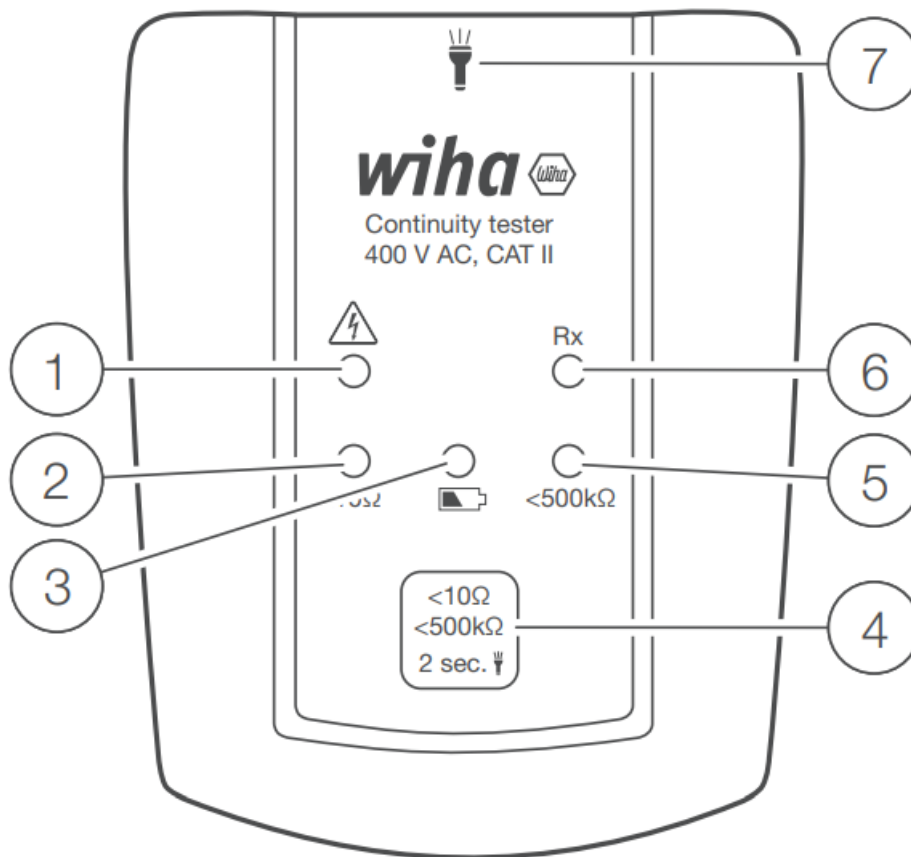
Never operating with the device on a higher voltage than in the technical data!
Otherwise, the device can be destroyed or permanently damaged.

Appropriate usage

The instrument may only be used under those conditions and for those purposes for which it was conceived. For this reason, in particular the safety references, the technical data including the environmental conditions and the usage in dry environments must be followed.

Control elements and connections

1. LED indicates high (dangerous) voltage from 50 V up to 400 V
2. LED indicate measurement range $< 10 \Omega$
3. LED indicate low battery



- 4. Button for different ranges and torch light
- 5. LED indicate measurement range < 500 kΩ
- 6. LED "Rx" indicate continuity
- 7. Torch light

Using of device

- Continuity tester can be turned on with short press on pushbutton **4** . The continuity tester turns on automatically if continuity < 500 kΩ is detected between probes. After turn on, continuity tester operates in < 500 kΩ operating mode by default.
- Short press on pushbutton switches between operating modes: < 500 kΩ or < 10 Ω. < 500 kΩ → < 10 Ω → < 500 kΩ
- Long press on pushbutton > 2 s turns on Torch light. Torch light turns off automatically 30 s after activation, or by second Long press > 2 s on pushbutton.
- Long press on pushbutton > 6 s turn off device.
- Self-test of device can be activated with shorting of tips (probes) while device is turned off.
- Device indicates continuity by LED "Rx" **6** and beeps if resistance between tips is less than 500 kΩ for < 500 kΩ range, and if resistance is less than 10 Ω for < 10 Ω range.
- Continuity tester is intended for use on non-energized environment. The ELV LED is used to signalize dangerous voltage. If ELV LED turns on during test, testing must be stopped.
- If low battery LED turns on **3** , 2x AAA batteries needs to be replaced.

Maintenance

When using the instrument in compliance with the instruction manual, no special maintenance is required.

Cleaning

If the instrument is dirty after daily usage, it is advised to clean it by using a humid cloth and a mild household detergent. Prior to cleaning, ensure that instrument is disconnected from external voltage supply and any other instruments connected. Never use acid detergents or solvent for cleaning.

Battery replacement

Remove the probes from any testing point, when opening the Battery case. Batteries are dead when the continuity test with both test probes connected cannot be done anymore. A battery symbol in the LCD indicates low battery. If the instrument operation is impaired, carry out the battery replacement.

1. Disconnect the instrument from measurement circuit.
2. Open the casing by loosen the screw.
3. Insert 2 new batteries type AAA by respecting the polarity and close the casing.

Please think of our environment when you dispose your used batteries. They belong in a rubbish dump or a refuse collection place for hazardous waste.

Remove the battery when not using the instrument over a long time period.

However, should the instrument be contaminated by leaking batteries, return the instrument for cleaning and inspection to the factory.

Technical data

High range	
Range	0...500 kΩ
Tolerance	+/- 25 %
Test current	< 5 μA
Acoustic indication	yes
LED indication	Rx LED
Automatic power on	< 500 kΩ
Overvoltage protection	400 VAC / VDC for 30 s
Low Range	
Range	0...10 Ω
Tolerance	+/- 25 %
Test current	< 20 mA
Acoustic indication	yes
LED indication	Rx LED
Automatic power on	< 500 kΩ
Overvoltage protection	400 VAC / VDC for 30 s
General	
Built according	IEC / EN 61010-1
Power supply	2 x AAA batteries
Operating temperature	0...40 °C

Service and warranty

Should the device no longer work, should you have any questions or require information, contact an authorised customer service point for Wiha power tools:

Customer care

Wiha Werkzeuge GmbH	Tel.: +49 7722 959-0
Obertalstraße 3 – 7	Fax: +49 7722 959-160
78136 Schaech	Email: info.de@wiha.com
GERMANY	Website: www.wiha.com

The warranty is voided in the event of injury or damage to property caused due to non-compliance with these instructions. The manufacturer accepts no liability for consequential damage!



Tools that work for you

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Documents / Resources

	<p>wiha CAT II Continuity Tester [pdf] Instruction Manual CAT II Continuity Tester, CAT II, Continuity Tester, Tester</p>
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References

-  [Wiha Werkzeuge GmbH - Tools that work for you](#)
- [User Manual](#)