



# PeakTech 2525 3-Phase Motor Rotation Tester User Manual

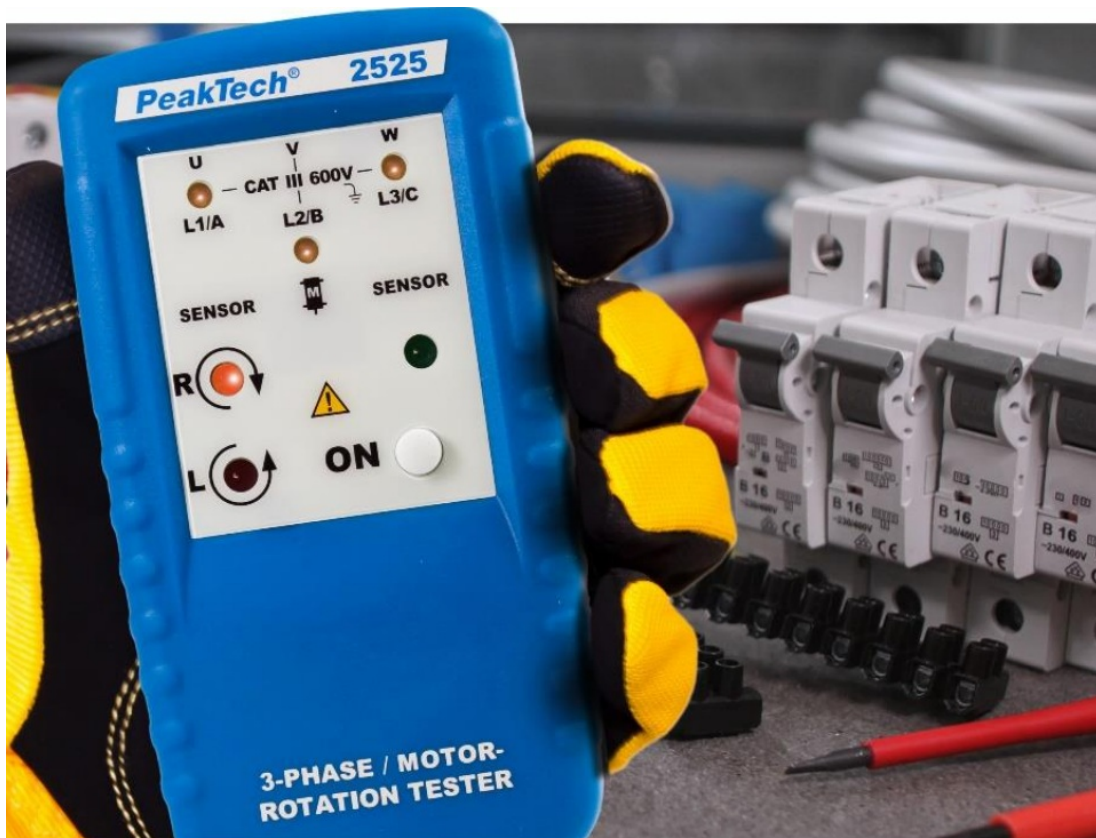
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**2525 3-Phase Motor Rotation Tester**



**PeakTech® 2525**  
**Operation manual**  
**3-Phasen-Motor-Rotation Tester**

## Safety Precautions

This product complies with the requirements of the following European Community Directives: 2014/30/EU (Electromagnetic Compatibility) and 2014/35/EU (Low Voltage) as amended by 2014/32/EU (CE-Marking).  
 Overvoltage category III 600V; pollution degree 2.

CAT I: For signal level, telecommunication, electronic with small transient overvoltage

CAT II: For local level, appliances, main wall outlets, portable equipment

CAT III: Supplied from a cable under the earth; fixed installed switches, automatic cut-off or main plugs

CAT IV: Units and installations, which are supplied overhead lines, which stand a risk of persuading of lightning, i.e. main-switches on current input, overvoltage-diverter, current use counter.

To ensure the safe operation of the equipment and eliminate the danger of serious injury due to short circuits (arcing), the following safety precautions must be observed.

Damages resulting from failure to observe these safety precautions are exempt from any legal claims.







- Do not use this instrument for high-energy industrial installation measurement. For measuring circuits not exceeding 400V AC.
- Do not place the equipment on damp or wet surfaces.
- Do not exceed the maximum permissible input ratings (danger of serious injury and/or destruction of the equipment).
- Check test leads and probes for faulty insulation or bare wires before connection to the equipment.
- To avoid electric shock, do not operate this product in wet or damp conditions. Conduct measuring works only in dry clothing and rubber shoes, i. e. on isolating mats.
- Comply with the warning labels and other info on the equipment.

- The measurement instrument is not to be operated unattended.
- Do not subject the equipment to direct sunlight or extreme temperatures, humidity, or dampness.
- Do not subject the equipment to shocks or strong vibrations
- Keep hot soldering irons or guns away from the equipment.
- Allow the equipment to stabilize at room temperature before taking up measurements (important for exact measurements).
- Do not input values over the maximum range of each measurement to avoid damage to the meter.
- Use caution when working with voltages above 35V DC or 25V AC. These voltages pose a shock hazard.
- Fetch out the battery when the meter will not be used for a long period.
- Periodically wipe the cabinet with a damp cloth and mild-detergent. Do not use abrasives or solvents.
- The meter is suitable for indoor use only
- Do not operate the meter before the cabinet has been closed and screwed safely as the terminal can carry voltage.
- Do not store the meter in a place of explosive, inflammable substances.
- Do not modify the equipment in any way
- Do not place the equipment face-down on any table or workbench to prevent damaging the controls at the front.
- Opening the equipment and service – and repair work must only be performed by qualified service personnel
- Measuring instruments don't belong to children's hands.

### 1.1. Cleaning the cabinet

Clean only with a damp, soft cloth and a commercially available mild household cleanser. Ensure that no water gets inside the equipment to prevent possible shorts and damage to the equipment.

### 1.2. Safety Symbols

	risk of electrical shock
	refer to the operation manual
	hazardous voltage
	double insulation
	Earth
	AC or DC

### Features

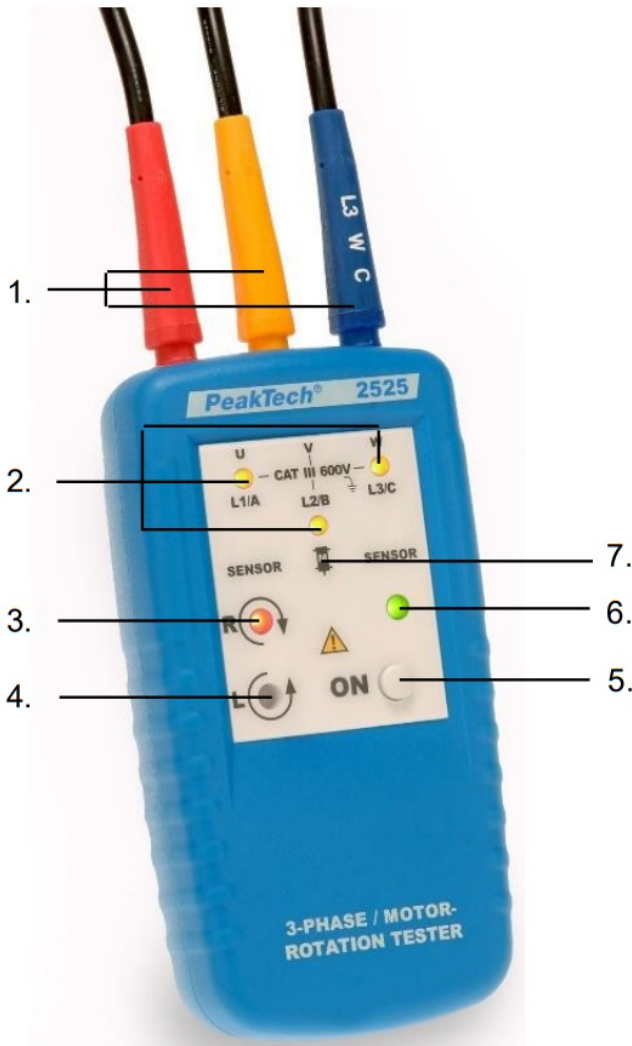
- 3 in 1: Determine rotary field direction, and non-contact rotary field indication and determine the motor connection

- battery operated
- complete with three large alligator clips

## Specifications

Input Voltage	1 VAC ... 400 VAC rotary field test 120 VAC ... 400 V AC phase test
Frequency Range	45 to 70 Hz
Power Requirement	9 V battery
Power Consumption	Consumption current approx. 20 mA of motor field tester AC power consumption approx. 3,5 mA per phase rotation field indicator.
IP Class	IP 40
Dimensions (WxHxD):	130 x 69 x 32 mm
Weight:	approx. 130 g
Accessories	Test leads; alligator clips, carrying case, instruction manual, battery

## Front Panel Description






1. test lead input jack

2. phase indicators
3. Clockwise rotation indicator
4. counter-clockwise rotation indicator
5. On/off button
6. On / Off indicator
7. Indicator for motor-direction

## Measuring Methods

### 5.1. Operations 3 phase rotation tester

1. Connect the test lead to 3-phase input terminals by U-V-W.
2. Connect colour alligator clips to the terminals of a 3-phase power source. Connecting orders may be optional.
3. Make sure that all three lamps for open phase check are on. If so, there is no open phase. When any of the three lamps is not on, there is an open phase.

Open phase check lamp "U" is not on		Open phase on the terminal where RED alligator clip is connected
Open phase check where lamp "V" is not on		Open phase on terminal YELLOW alligator clip is connected.
Open phase check where lamp "W" is not on.		Open phase on terminal BLUE alligator clip is connected

4. Check the rotating direction of the rotation indicator. If the lamp of counter-clockwise is lit, alternate the connection of two of the three alligator clips.  
If the lamp clockwise is lit, phase sequence is U, V, and W in order of the power source terminals where the RED, YELLOW, and BLUE alligator clips are connected.

### 5.2. Operations motor rotation tester

Non-contact rotary field indication:

For non-contact rotary field indication:

1. Disconnect all test leads from the Motor and Phase Rotation indicator.
2. Position the Indicator on the motor so that it is parallel to the length of the motor shaft. The Indicator should be one inch or close to the motor.
3. Press the ON/OFF button. The green ON indicator shows that the instrument is ready for testing.  
Either the Clockwise or Counter Clockwise Rotary indicator illuminates showing the type of rotary field direction present.

Determine the Motor Connection:

1. Connect one end of the test leads to the Motor and Phase Rotation indicator. Make sure the L1, L2, and L3 test

leads are connected to the corresponding jack.

2. Connect the alligator clamps to the other end of the test leads.
3. Connect the alligator clamps to the motor connections, L1 to U, L2 to V, L3 to W.
4. Press the ON/OFF button. The green ON indicator shows that the instrument is ready for testing.
5. Turn the motor shaft half a revolution towards the right.

### Note

The bottom of the Motor and Phase Rotation indicator should be oriented towards the drive shaft. See the Orientation Symbol on the Motor and Phase Rotation indicator. Either the Clockwise or Counter Clockwise Rotary indicator illuminates showing the type of rotary field direction present.

## Maintenance

### 6.1. Battery Replacement

1. It is necessary to replace the battery when the green lamp is dull-lit.
2. Use a screwdriver to unscrew the screws on the back then open the case, take out the battery and replace it with a new battery Type 9 V.
3. Reinstall the case.

### Caution!

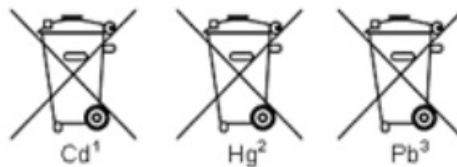
Batteries that are used up dispose of duly. Used-up batteries are hazardous and must be given in the for this being a supposed collective container.

### 6.2. Notification about the Battery Regulation

The delivery of many devices includes batteries, which for example serve to operate the remote control. There also could be batteries or accumulators built into the device itself. In connection with the sale of these batteries or accumulators, we are obliged under the Battery Regulations to notify our customers of the following:

Please dispose of old batteries at a council collection point or return them to a local shop at no cost. The disposal of domestic refuse is strictly forbidden according to the Battery Regulations. You can return used batteries obtained from us at no charge at the address on the east side of this manual or by posting with sufficient stamps. Contaminated batteries shall be marked with a symbol consisting of a crossed-out refuse bin and the chemical symbol (Cd, Hg or Pb) of the heavy metal which is responsible for the classification as a pollutant:

- 1.



“Cd” means cadmium.

2. “Hg” means mercury.
3. “Pb” stands for lead.

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## Documents / Resources



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2525 3-Phase Motor Rotation Tester, 2525, 3-Phase Motor Rotation Tester, Motor Rotation Tester, Rotation Tester, Tester

## References

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