



## PeakTech 2530 3 Phase Rotation Tester User Manual

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# PeakTech®

Unser Wert ist messbar

PeakTech® 2530

Bedienungsanleitung

Operation manual



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## Safety precautions

This product complies with the requirements of the following directives of the European Union for CE conformity: 2014/30/EU (electromagnetic compatibility), 2014/35/EU (low voltage), 2011/65/EU (RoHS).

Overvoltage category III 600V; pollution degree 2.

CAT I: For signal level, telecommunication, electronic with small transient over voltage.

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

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

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

To ensure 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 whatever.

- Do not use this instrument for high-energy industrial installation measurement.
- 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.
- Never touch the tips of the test leads or probe.
- 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.
- Do not operate the equipment near strong magnetic fields (transformers etc.).
- Keep hot soldering irons or guns away from the equipment.
- Allow the equipment to stabilize at room temperature before taking up measurement (important for exact measurements).
- Use caution when working with voltages above 35V DC or 25V AC. These Voltages pose shock hazard.
- 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 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 work bench 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 hands!-

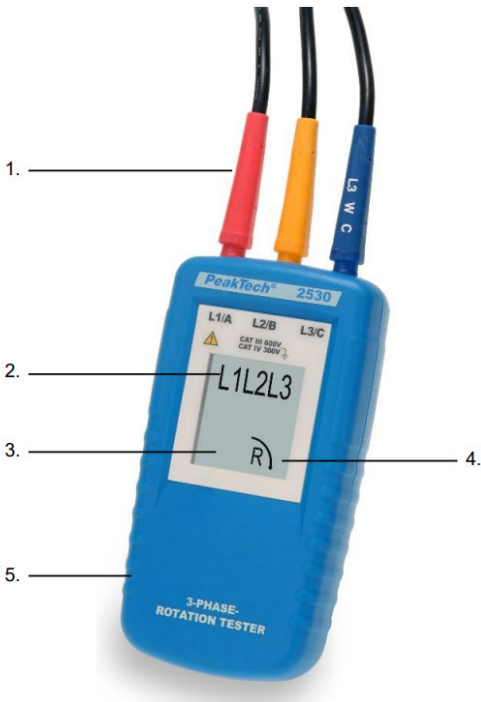
### Cleaning the cabinet

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.

### Specifications

Signal input voltage	40 V AC up to 690 V max.
Signal current consumption	1 mA
Signal frequency range	15 to 400 Hz
Test current	1 mA
Circuit Structure	electronic (not mechanical)
Operating temperature	0° C to 40° C (32° F to 104° F)
Operating humidity	less than 80% R. H.
Size	69 x 130 x 32 mm
Weight	130 g
Standard accessories	Operation manual, 3 pcs. 1m length test leads with alligator clip, carrying case

### Instrument layout



1. Test lead input jack
2. L1, L2, L3 Indicators
3. Clockwise Rotation LCD Indicator
4. Counter-Clockwise Rotation LCD Indicator
5. Brief Instructions on instrument rear

## Environment Conditions

- Indoor use
- Installation categories III, 690 V AC
- Pollution degree 2
- Relative humidity 80% max.
- Altitude up to 2.000 meter
- Operation temperature: 0...40°C

## Operation 3 phase rotation tester

1. Connect the test leads of 3 phase rotation tester to the 3 phase AC power.
2. The 3 phase rotation tester will indicate the state of 3 phase.
3. Maximum input voltage is 660 V AC.
4. The indicator instruction show as below table.
5. While available phases the 3 phases-LED lights up. If one or more LED – Displays are staying dark, is/are the corresponding phases open.

## Operation indicator

Clockwise (correct)	Light 	L1   L2   L3
Counter clockwise(correct)	Light 	L1   L2   L3
L1 not connected (incorrect)		L2   L3
L2 not connected (incorrect)		L1   L3
L3 not connected (incorrect)		L1   L2

## Determine the Rotary Field Direction

Connect the test probes to the end of the test leads.

Connect the test probes to the three mains phases.

After connection the test leads the display shows the corresponding symbol L1, L2 or L3 After complete connection with the 3-phases the display shows the rotary field direction

## Instructions for cleaning

1. Please wipe the box housing only with dry clothing when cleaning, do not wipe with wet cloths.

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## Documents / Resources



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## References

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