

UT261A

Phase Sequence Indicators Operating Manual

Safety instructions

- ⚠ **Attention:** it refers to the circumstances or behaviors possibly making UT261A damaged.
- ⚠ **Warning:** it refers to the circumstances or behaviors endangering the user.

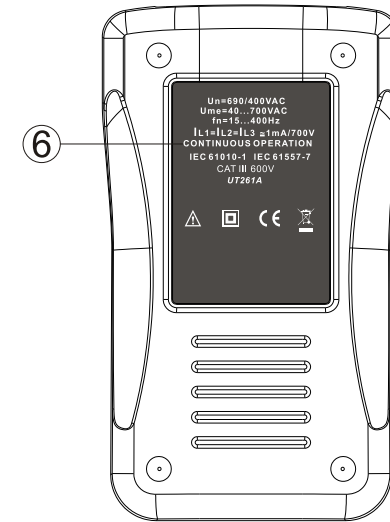
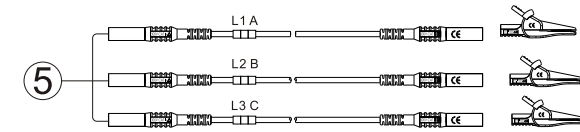
To avoid electric shocks or fires, please follow the regulations below.

- Before using or repairing the product, please read the safety instructions below carefully.
- Please follow the local and national safety codes.
- Do wear personal protective equipment to avoid electric shocks and other injuries.
- Do use the product with the method described by the manufacturer, otherwise the safety characteristics or protective actions provided by it will possibly be damaged.
- Check whether the insulators of the test leads are damaged or have any exposed metal. Inspect the continuity of the test leads. If any test lead is damaged, do replace it.
- Pay special attention if the voltage is a true RMS of 30VAC, or 42VAC as peak, or 60VDC because these voltages are likely to cause electric shocks.
- When a probe is used, put fingers away from its contact and behind its finger protecting device.
- The impedance generated by the transient current of the extra operating circuit connected in parallel will possibly affect the measurement adversely.
- Before measuring a dangerous voltage, such as a true RMS of 30VAC, or 42VAC as peak, or 60VDC because, make sure the product is operating normally.
- Do not use UT261A after any part of it has been dismantled.
- Do not use UT261A close to explosive gases, steam, or dust.
- Do not use UT261A in a humid place.

Symbols

The following indication symbols are used on UT261A or in this Manual.

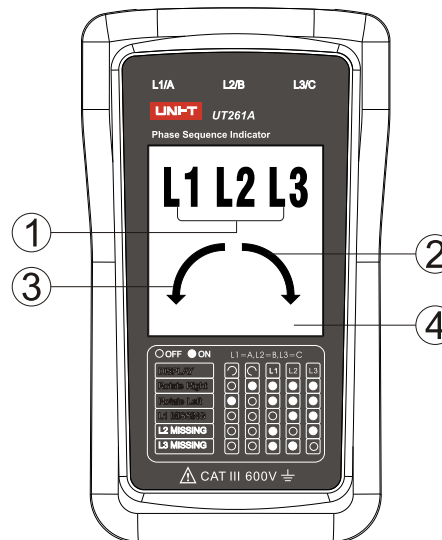
⚠	Electric shocking
⚠	Warning
⚡	Dangerous voltage
□	Dual or mandatory insulation protection
≡	Grounding
~	AC or DC
CE	Comply with EU code
CAT III	Comply with IEC61010-1 pollution protection degree 2, means the degree of pulse withstand voltage protection measure provided by the instrument; OVERVOLTAGE CATEGORY III refers to the stationary device (for instance, electric meter and major over-current protection devices)



- ① L1, L2 and L3 LCD
- ② LCD for clockwise rotating
- ③ LCD for anti-clockwise rotating
- ④ LCD
- ⑤ Test lead
- ⑥ There is safety information on back of the product.

Description of a complete UT261A

The lights and jacks are described in Fig.



Measurement of direction of the rotating magnetic field

It is necessary to measure direction of the rotating magnetic field in the way below:

1. Insert terminals L1, L2 and L3 of the test pen into the L1, L2 and L3 holes of UT261A, respectively.
2. Insert the other terminal of the test pen into the alligator clip.
3. Have the alligator clip accessed to the phases of the three power cables to be measured. After that, the LCDs of the product will automatically display the phase sequences of L1, L2 and L3.

Warning

Even if it is not connected with test leads L1, L2 and L3 but uncharged conductor N, there will be a rotation indicating symbol. For more details, please refer to the panel information of UT261A

Specification

Environment	
Working temperature	0°C ~ 40°C (32°F ~ 104°F)
Storage temperature	0°C ~ 50°C (32°F ~ 122°F)
Elevation	2000m
Humidity	≤95%
Pollution protection grade	2
IP grade	IP 40
Mechanical specification	
Dimensions	123mm×71mm×29mm (4.8in×2.8in×1.1in)
Weight	160g
Safety specification	
Electrical safety	Be in compliance with safety standards IEC61010/EN61010 and IEC 61557-7
Maximum operating voltage (Ume)	700V
CAT grade	CAT III 600V
Electrical specification	
Power supply	Provided by the measured device
Nominal voltage	40VAC - 700VAC
Frequency (fn)	15Hz-400Hz
Current induction	1mA
Nominal test current (subject to each phase)	1mA

Maintenance

Attention

To avoid damage of UT261A:

- Only qualified technicians can repair or maintain UT261A.
- Make sure the calibration steps and performance test are proper and refer to proper maintenance information.

Attention

To avoid damage of UT261A:

- Do not corrosives or solvents because they may damage the shell of UT261A.
- Before cleaning UT261A, pull out the test leads.

Accessories

Following standard parts are provided:

- A host machine
- An operating manual
- Three testing lead
- Three alligator clips
- A certificate of quality
- A bag

UNI-T[®]

UNI-TREND TECHNOLOGY (CHINA) CO., LTD.

No6, Gong Ye Bei 1st Road,
Songshan Lake National High-Tech Industrial
Development Zone, Dongguan City,
Guangdong Province, China
Tel: (86-769) 8572 3888
<http://www.uni-trend.com>