

PHASE DETECTOR ATK-6010

Users Manual



Features

Phase detector is a compact and portable tool for quick phase sequence check. Clip leads are color-marked to match the dial to give the quick indication of phase sequence. It can give long time stable performance under proper operation. For first-time user, please check out this manual before get started using the instrument.

Inspection and Maintenance

Preliminary Checks

- 1) Before using the product the first time, verify that it operates normally to ensure that the no damage occurred during storage or shipping. If you find any damage, contact your local dealer.
- 2) Before using the product, make sure that the insulation on the cables and the protective tube of the fuse holder is undamaged and that no bare conductors are improperly exposed. Using the product in such conditions could cause an electric shock.

Maintenance and Service

- 1) To clean the product, wipe it gently with a soft cloth moistened with water or mild detergent. Never use solvents such as benzene, alcohol, acetone, ether, ketones, thinners or gasoline, as they can deform and discolor the case.
- 2) To verify that the product operates normally, connect the tester to a three-phase power supply with correct phase sequence and make sure that the indicator dial rotates in the direction of the arrow.

SPECIFICATIONS

Voltage range:	110 to 480V
Permissible time limits:	110V: continous/220V: 30 min./480V: 4 min.
Frequency response:	40 to 70Hz
Inclination variation:	+/-15°/horizontal
Operating temperature	0°C - 40°C(32°F to 104°F)
and humidity:	70% RH (non-condensating)
Storage temperature	-10°C - 50°C (14°F - 122°F)
and humidity:	70% RH (non-condensating)
Dielectric strength:	2000 VAC for 1 min.
	(between circuit and product, at 50/60Hz)
Insulation resistance:	100MOhm (between circuit and product)
Clip leads length:	1.2m
Accessories:	Carrying case, instruction manual, fuse(FF0.5A/700V
Dimenstion and weight:	70W x 95H x 55D mm/280g

SAFETY CAUTIONS

Following safety caution symbols are used in the manual, read carefully where they appear to avoid potential human injury:

Safety Symbol



In the manual, the A symbol indicates particularly important information that operator shall read before using the product.

The following symbols in the manual indicate the relative important cautions and warnings

A DANGER

Indicates that improper operation will lead to extreme hazard that could be lethal to the operator.

WARNING

Indicates that improper operation will lead to significant hazard

that could be lethal to the operator.

riangle Caution

Indicates that improper operation will lead to possible injury to

the operator or damage to the product.

NOTE

Advisory items related to the performance or proper

operation of the product.

USAGE NOTES

▲ DANGER

The maximum rated working voltage is 480 VrmsAC. Attempting to measure voltage in excess of the maximum rating could destroy the product and result in human injury or death.

△WARNING

*To avoid electric shock, do not allow the product to get wet, and do not use it when your hands are wet.

*To avoid electric shock when measuring live lines, wear appropriate protective gear, such as insulated rubber gloves, boots and a safety helmet.

*Do not use the product where it may be exposed to corrosive or combustible gases. The product may be damaged or cause an explosion.

*To avoid electric shock, turn off the power before attaching a clip, and then turn on the power to measure.

⚠ CAUTION

*Do not store or use the product where it could be exposed to direct sunlight. high temperature or humidity, or condensation. Under such conditions, the product may be damaged and insulation may deteriorate so that it no longer meets specifications.

*To avoid damage to the product, protect it from vibration or shock during transport and handling, and be especially careful to avoid dropping.

NOTE

*Continuous use for long period of time may be dangerous. Be sure to use the tester within the maximum permissible use times given above.

*If the power voltage is unknown, be sure to check it first with a volt-meter before connecting the tester. *This tester is designed to be used in the horizontal position (+/-15 °). Using it in other inclination may prevent the dial from rotating, and cause faulty readings.

OPERATION INSTRUCTIONS

Connect the tester to a three-phase circuit. If the dial rotates in the direction of the arrow, the phase connection order is RST.

