

LCD Display, electronic circuit

3 PHASE ROTATION TESTER

Model : RT-616

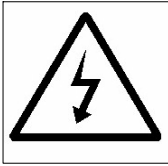


Your purchase of this ROTATION TESTER marks a step forward for you into the field of precision measurement. Although this TESTER is a complex and delicate instrument, its durable structure will allow many years of use if proper operating techniques are developed. Please read the following instructions carefully and always keep this manual within easy reach.



OPERATION MANUAL

Caution Symbol



Caution :

- * Do not touch the alligator clips by hand when make the measurement !
- * Risk of electric shock !



Caution :

- * Do not apply the voltage > 660 ACV to the input terminal !
- * Remove test alligator clips before make the fuse replacement!
- * Cleaning - Only use the dry cloth to clean the plastic case !

Environment Conditions

- * Installation categories III, 660 Vac.
- * Pollution Degree 2.
- * Altitude up to 2000 meters.
- * Indoor use.
- * Relative humidity 80% max.

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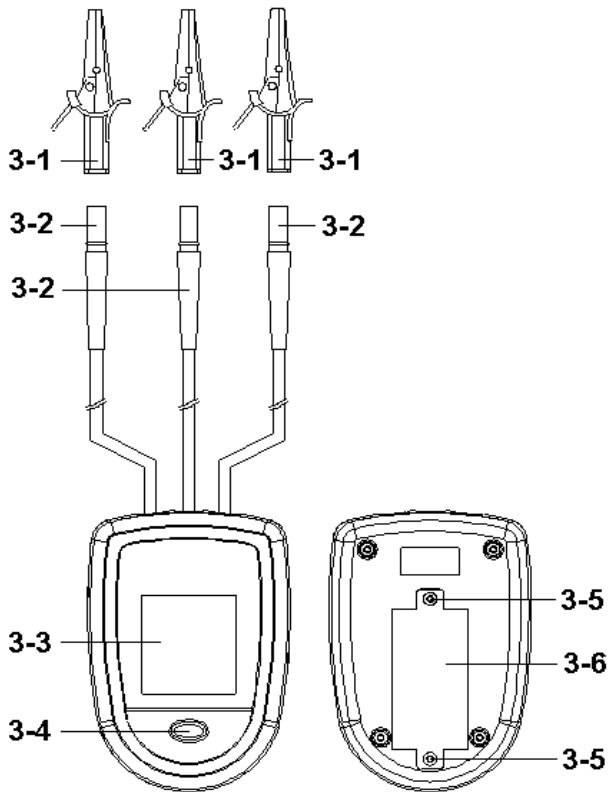
1. FEATURES

- * Electronic (not mechanical) rotation test, high reliability.
- * LCD display, easy ready and simple operation.
- * Signal input voltage : 100V AC up to 660V AC max.

2. GENERAL SPECIFICATIONS

Signal Input Voltage	100V AC up to 660 AC maximum, 3 min. limit for over 500V AC.
Signal Current Consumption	Approx. 7 mA per phase.
Signal Freq. Range	45 to 70 Hz.
Circuit	* Electronic (not mechanical). * Custom one-chip of microprocessor LSI circuit.
Power Supply	DC 9V battery. 006P, MN1604 (PP3) or equivalent. Approx.
Power Consumption	Approx. DC 8 mA.
Operating Temperature	0 to 50 °C (32 to 122 °F).
Operating Humidity	Less than 80% RH.
Dimension	100 x 50 x 25 mm. 3.9 x 1.9 x 1.0 inch.
Weight	150 g/0.33 lb.
Standard Accessories	* Operational manual..... 1 PC * Meter with 3 PCs 40 cm length test lead and banana Plug..... 1 SET * Alligator clip..... 3 PC

3. FRONT PANEL DESCRIPTION



- 3-1 Alligator clips (L1, L2, L3)
- 3-2 Banana plugs (L1, L2, L3)
- 3-3 LCD Display
- 3-4 Power ON/OFF Button
- 3-5 Screw for Battery Cover
- 3-6 Battery Cover/Compartment

4. OPERATION PROCEDURES



Caution :

- * Do not touch the alligator clips by hand when make the measurement !
- * Risk of electric shock !



Caution :

- * Do not apply the voltage > 660 ACV to the input terminal !

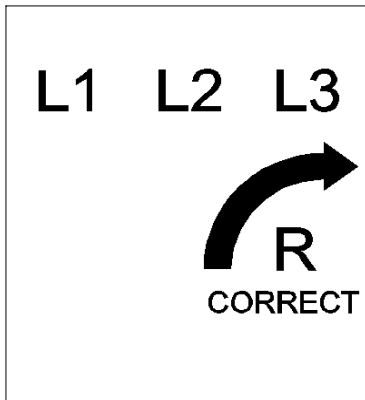
1) Plug in the " Banana plugs " (3-2, Fig. 1) into the power source.

Or

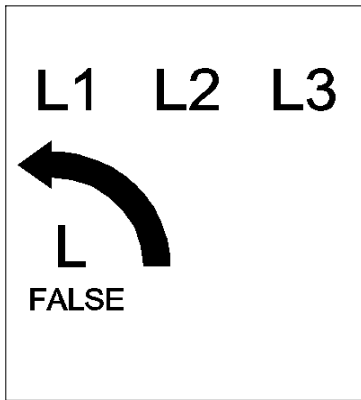
Connect the " Alligator clips (3-1, Fig. 1) to the " Banana plugs " (3-2, Fig. 1), then Connect alligator to the 3 phase AC power source.

2) The tester will show the status & the " Rotation direction " of 3 phase lines, refer following Figure.

Clockwise (correct)

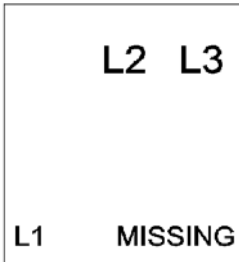


Counter clockwise (correct)

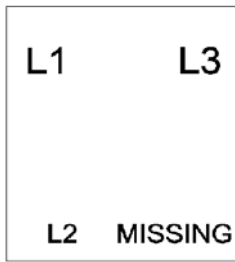


Line is no connection (Incorrect)

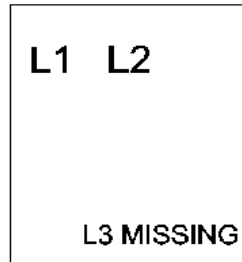
L1 missing



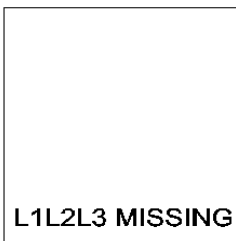
L2 missing



L3 missing



L1, L2, L3 missing




MAINTENANCE



Caution :

- * Remove test plugs (clips) before change the battery. replacement. !
- * Cleaning - Only use the dry cloth to clean the plastic case !

5. BATTERY REPLACEMENT

- 1) When the left up corner of LCD display show " , it is necessary to replace the battery. However, in-spec. measurement may still be made for several hours after low battery indicator appears.
- 2) Loose the " Screw for Battery Cover " (3-5, Fig. 1), slide the " Battery Cover " (3-6, Fig. 1) away from the instrument and remove the battery.
- 3) Replace with 9V battery (Alkaline or Heavy duty type) and reinstate the cover.
- 4) Make sure the battery cover is secured after changing the battery.

6. THE ADDRESS OF AFTER SERVICE CENTER

