

T  **USA**
Equipment
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 1-877-742-TEST (8378)

3 PHASE & MOTOR ROTATION TESTER

Model : RT-608

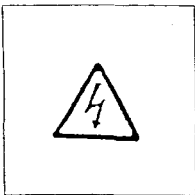


Your purchase of this 3 PHASE AND ROTATION TESTER marks a step forward for you into the field of precision measurement. Although this TESTER is a complex and delicate instrument, its durable structure will allow many years of use if proper operating techniques are developed. Please read the following instructions carefully and always keep this manual within easy reach.



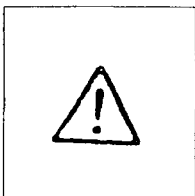
OPERATION MANUAL

Caution Symbol



Caution :

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



Caution :

- * 3 phase rotation tester :
Do not apply the voltage > 660 ACV to the input terminal !
- * Motor rotation tester :
Do not apply the live voltage to the input terminal.
- * Remove test leads before make the fuse & battery replacement. !
- * Cleaning – Only use the dry cloth to clean the plastic case !

Environment Conditions

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

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1. GENERAL SPECIFICATIONS

Signal Input Voltage	<i>Motor rotation tester :</i> 100V AC up to 660 AC maximum, 3 min. limit for over 500V AC.
Signal Current Consumption	<i>Motor rotation tester :</i> Approx. 14 mA. <i>3 phase rotation field tester :</i> Approx. 7 mA per phase.
Signal Freq. Range	<i>Motor rotation tester :</i> 45 to 70 Hz.
Power Supply	006P DC9V battery for motor rotation tester.
Circuit Structure	Electronic (not mechanical).
Operating Temperature	0 °C to 50 °C(32 °F to 122 °F).
Operating Humidity	Less than 80% RH.
Dimension	150 x 85 x 40 mm. 5.9 x 3.4 x 1.6 inch.
Weight	230 g/0.5 lb.
Fuse Rating	250 mA/250 V.
Standard Accessories	Operational manual.....1 PC. 40 cm length test lead with alligator clip..... 3 PCs

2. FRONT PANEL DESCRIPTION

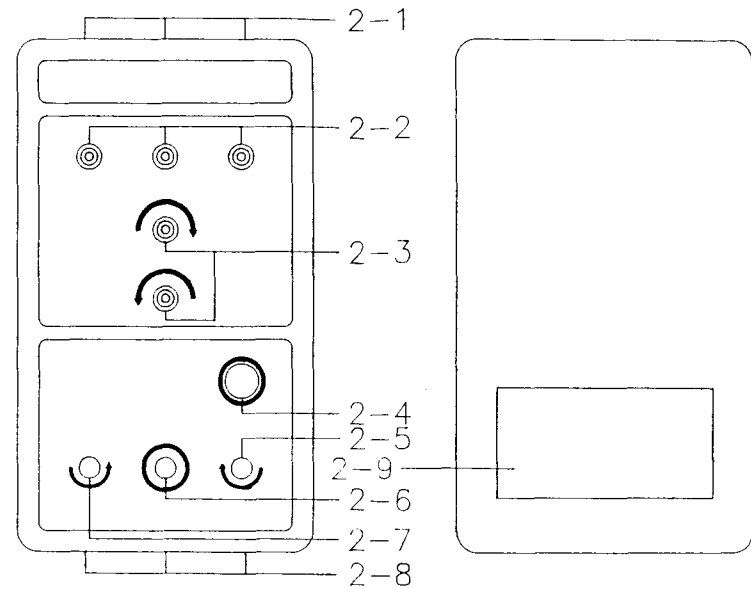


Fig. 1

- 2-1 Input terminal (3 phase rotation tester)
- 2-2 L1-L2-L3 Indicator (3 phase rotation tester)
- 2-3 3 phase rotation indicator
- 2-4 Power button (Motor tester)
- 2-5 Clockwise indicator (Motor tester)
- 2-6 Power indicator (Motor tester)
- 2-7 Counter clockwise indicator (Motor tester)
- 2-8 Input terminal (Motor tester)
- 2-9 Battery Cover/Compartment

3. OPERATION PROCEDURES



Caution :

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



Caution :

- * 3 phase rotation tester :
Do not apply the voltage > 660 ACV to the input terminal !
- * Motor rotation tester :
Do not apply the live voltage to the input terminal.

3-1 3 Phase Rotation Tester

CLOCKWISE (CORRECT)	LIGHT 	L1	L2	L3	LIGHT
COUNTER CLOCKWISE (CORRECT)	LIGHT 	L1	L2	L3	LIGHT
L1 NO CONNECT (INCORRECT)	LIGHT 	L1	L2	L3	LIGHT
L2 NO CONNECT (INCORRECT)	LIGHT 	L1	L2	L3	LIGHT
L3 NO CONNECT (INCORRECT)	LIGHT 	L1	L2	L3	LIGHT

table 1

- 1) Plug in the test leads into the " 3 phase rotation tester input terminal " (2-1, Fig. 1)
- 2) Connect alligator clips of the test leads to the 3 phase AC power source.
- 3) The tester will show the status & the " Rotation direction " of 3 phase lines, refer table 1.

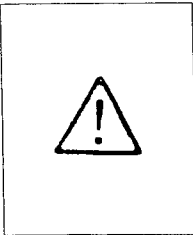
3-2 Motor Rotation Tester

- 1) Make sure that there is no live voltage present to the motor power line (L1, L2, L3).
- 2) Plug in the test leads into the " Motor tester input terminals " (2-8, Fig. 1)
- 3) Connect the alligator clips of test leads to the motor power line (L1, L2, L3), and press the " Power button " (2-4, Fig. 1). The " Power indicator/green lamp " (2-6 Fig. 1) will light.
- 4) Rotating the motor shaft in **clockwise direction**, if red lamp of the " Clockwise indicator " (2-5, Fig. 1) light,
or
Rotating the motor shaft in **counter clockwise direction**, if red lamp of the " Counter clockwise indicator " (2-7, Fig. 1) light,

then it means that if motor power line connection to the AC power supply by L1-L2-L3, the 3 phase motor will rotate under the clockwise direction.

- 4) If you require the motor rotate **counter clockwise direction** it should change to the new power line connection to L2-L1-L3, then the motor will rotate the counter clockwise direction.

4. MAINTENANCE



Caution :

- * Remove test leads before make the fuse & battery replacement. !
- * Cleaning – Only use the dry cloth to clean the plastic case !

4-1 Replacement of Battery

- 1) Battery only used for the " Motor Rotation Tester "
- 2) It is necessary to replace battery when the " Power Indicator/Green Lamp " (2-6, Fig. 1) is under faint light.
- 3) Open the " Battery cover " (2-9, Fig. 1) by tool.
- 4) Replace the battery (006P DC 9V), then reinstate the battery cover again.

4-2 Replacement of Fuse

- 1) Fuse is used for the input protection of " 3 Phase Rotation Tester "
- 2) It is necessary to replace the fuse when lamp indicator of L1 or L3 show no connection status, then please check if the fuse is broken ?
- 3) Open the housing case by loosening the screws, replace the fuse with :

Rating : 250 mA/250 V, Size : 5 mm dia. x 20 mm

- 4) Reinststate the housing box again.

4-3 Cleaning

- 1) Do not take any cleaning action while the testing.
- 2) When cleaning, do not wipe with the wetting material.

5. THE ADDRESS OF AFTER SERVICE CENTER



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