

User's Manual



Phase Rotation Tester

Model 480300

Introduction

Congratulations on your purchase of Extech's Phase Rotation Tester. This professional meter, with proper care, will provide years of safe reliable service.

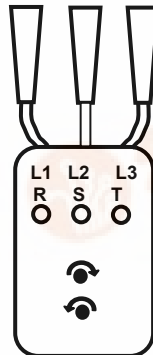
Specifications

Signal Input Voltage	100VAC up to 660VAC max., 3 minute limit over 500VAC.
Signal Frequency Range	45 to 70 Hz.
Circuit Structure	All electronic
Operating Temperature	0°C to 50°C (32°F to 122°F)
Operating Humidity	Less than 90% RH.
Fuse Rating	250mA / 250V
Power Supply	Uses connection to external equipment for power
Power Consumption	approx. 7mA @ 500V.
Dimension	3.9 x 1.9 x 1.0" (100 x 50 x 25mm)
Weight	0.33 lbs. (150g)
Standard Accessories	40cm test leads with alligator clips and Instruction Manual

Operation






The Phase Rotation function determines if the 3 phases are live and the direction a motor will turn if connected as indicated in Table 1 below.

1. Connect the three test leads to the 3 phase AC power source
2. Observe that all three lights (L1, L2, L3) are active
3. Observe the directional indication lights.
4. If the direction indicated is counter-clockwise, reconnect any two wires until the clockwise indicator is lighted.
5. If the clockwise indicator is lighted, label the power source "L1, L2, L3" (R, S, T)



3 Phase Tester Indication Table

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Table 1 3 Phase Tester Indication				
Direction	Indication	L1	L2	L3
Clockwise		●	●	●
Counter Clockwise		●	●	●
L1 No Connection		○	●	●
L2 No Connection		●	○	●
L3 No Connection		●	●	○
Light ON = ● Light OFF = ○				

Fuse Replacement

1. Replace the fuse when the indicators fail to light.
2. Open the case and replace the 250mA / 250V fuse.
3. Reinstall the case.

Calibration and Repair Services

Extech offers complete repair and calibration services for all of the products we sell. For periodic calibration, NIST certification or repair of any Extech product, call customer service for details on services available. Extech recommends that calibration be performed on an annual basis to ensure calibration integrity.

Warranty

EXTECH INSTRUMENTS CORPORATION warrants this instrument to be free of defects in parts and workmanship for one year from date of shipment (a six month limited warranty applies on sensors and cables). If it should become necessary to return the instrument for service during or beyond the warranty period, contact the Customer Service Department at (781) 890-7440 ext. 210 for authorization. A Return Authorization (RA) number must be issued before any product is returned to Extech. The sender is responsible for shipping charges, freight, insurance and proper packaging to prevent damage in transit. This warranty does not apply to defects resulting from action of the user such as misuse, improper wiring, operation outside of specification, improper maintenance or repair, or unauthorized modification. Extech specifically disclaims any implied warranties or merchantability or fitness for a specific purpose and will not be liable for any direct, indirect, incidental or consequential damages. Extech's total liability is limited to repair or replacement of the product.

The warranty set forth above is inclusive and no other warranty, whether written or oral, is expressed or implied.

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