

# PR400 Phase Rotation Tester



## ***Introduction***

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Congratulations on your purchase of the Triplett PR400 Phase Rotation Tester. This handheld instrument detects the phase rotation of three-phase systems. Color-coded test leads are provided for connecting to the three mains phases of the system under test.

## ***Safety***

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### **International Safety Symbols**



Caution! Refer to the explanation in this Manual



Caution! Risk of electric shock



Earth (Ground)



Double Insulation or Reinforced insulation



AC, Alternating Current or Voltage  
DC, Direct Current or Voltage

## Safety Procedures

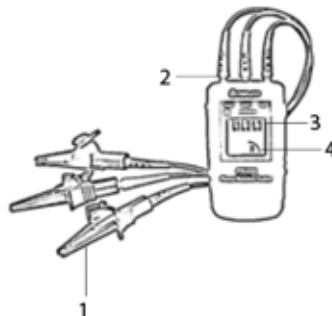
To avoid possible electric shock or fire, observe the following:

- Read the following information carefully before using or servicing the instrument.
- Adhere to local and national safety codes.
- Individual protective equipment must be used to prevent shock and injury.
- Use of instrument in a manner not specified by the manufacturer may impair safety features/protection provided by the equipment.
- Avoid working alone.
- Inspect the test leads for damaged insulation or exposed metal. Check test lead continuity. Damaged leads must be replaced. Do not use the phase Rotation indicator if it appears damaged.
- Use care when working above 30V ac rms, 42V ac peak and 60V dc. Such voltages pose a shock hazard.
- When using the probes, keep fingers away from probe contacts. Keep fingers behind the finger guards on the probes.
- Measurements can be adversely affected by impedances of additional operating circuits connected in parallel or by transient currents.
- Verify operation prior to measuring hazardous voltages (voltages above 30V ac rms, 42V ac peak and 60V dc).
- Do not use the phase Rotation indicator with any of the parts removed.
- Do not use the phase Rotation indicator around explosive gas, vapor, or dust.
- Do not use the meter in a wet environment.

## Description

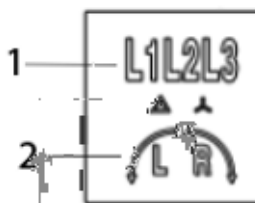
### Meter Description

1. Test Lead alligator clips
2. Test lead input jacks
3. L1, L2, L3 display icons
4. Clockwise Rotation LCD Indicator R (right) and L (left) icons



### Display Description

1. Line designators (L1, L2, and L3)
2. LEFT (L) or RIGHT (R) rotation direction



## ***Operation***

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### **Determine Phase Rotation Direction**

1. Connect the supplied color-coded test leads to the meter's test lead input jacks at the top of the meter.
2. Connect the test probes to the three mains phases for the system under test.
3. L1, L2, and L3 indicators will illuminate one at a time, on the meter's LCD display, as each phase is connected.
4. The clockwise and counter-clockwise arrows with the left 'L' or right 'R' icons display the phase rotation direction of the device under test.

Note: The rotational arrow indicators illuminate even if one of the test probes is connected to a neutral or ground conductor instead of one of the mains phases.

## ***Specifications***

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Nominal Voltage	40 to 600 VAC
Current pickup	1 mA
Nominal Test current ( per phase)	1 mA
Maximum Operating Voltage	600 V
Operating Temperature	32 to 104°F (0 to 40°C)
Type of protection	IP 40

Dimensions (H x W x D): 5.1 x 2.7 x 1.3"(130 x 69 x 32mm)

Weight 4.6 oz (130g)

Approvals CE (EU directives)

Safety For indoor use and in accordance with the requirements for double

insulation to IEC1010-1 (1995): EN61010-1 (1995)  
Overvoltage Category CAT III-600V

### **Warranty Information**

Triplett / Jewell Instruments extends the following warranty to the original purchaser of these goods for use. Triplett warrants to the original purchaser for use that the products sold by it will be free from defects in workmanship and material for a period of (1) one year from the date of purchase. This warranty does not apply to any of our products which have been repaired or altered by unauthorized persons in any way or purchased from unauthorized distributors so as, in our sole judgment, to injure their stability or reliability, or which have been subject to misuse, abuse, misapplication, negligence, accident or which have had the serial numbers altered, defaced, or removed. Accessories, including batteries are not covered by this warranty

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