

# BST-PR10 PHASE ROTATION INDICATOR with OPEN PHASE CHECKER

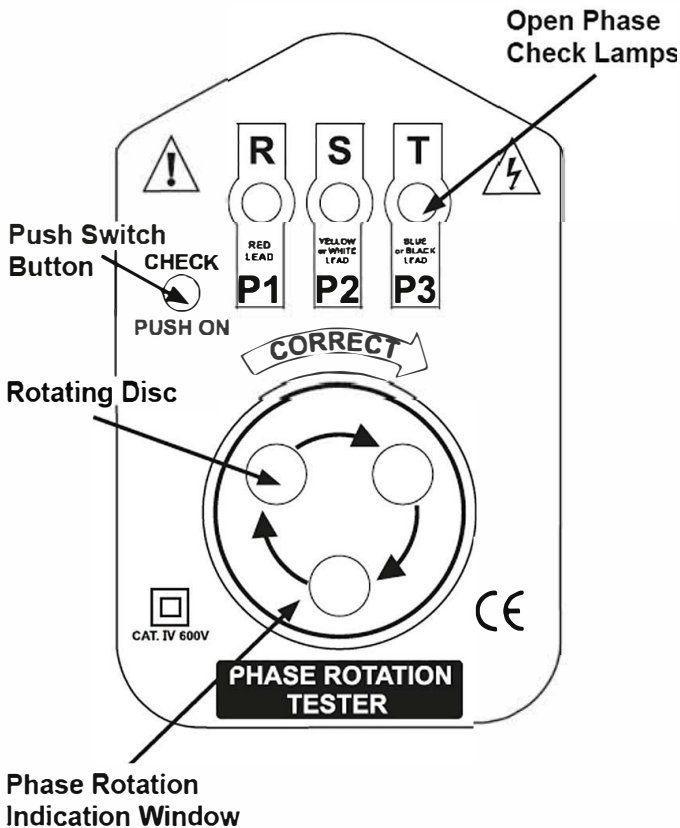
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## INSTRUCTION MANUAL



Test Equipment Depot - 800.517.8431  
99 Washington Street Melrose, MA 02176

## DESIGNATIONS



# 1. INTRODUCTION

## **NOTE**

This meter has been designed and tested according to EN 61010 and other safety standards.

Follow all warning to ensure safe operation.

## **WARNING**

READ "SAFETY NOTES" (NEXT PAGE) BEFORE USING THE METER.

## 2. SAFETY NOTES

- Read the following safety information carefully before attempting to operate or service the meter.
- Use the meter only as specified in this manual; otherwise the protection provided by the meter may be impaired.
- Rated environmental conditions :
  - (1) Indoor use.
  - (2) Installation Category IV.
  - (3) Pollution Degree 2.
  - (4) Altitude up to 2000 Meter.
  - (5) Relative Humidity 80% Max.
  - (6) Ambient Temperature 0~40°C.
- Observe the international Electrical symbols listed below.



Meter is protected throughout by double insulation or reinforced insulation.



Warning ! Risk of electric shock.



Caution ! Refer to this manual before using the meter.



Alternating current.

### 3. FEATURES

- Two functions in one unit :  
The model is designed to check phase sequence. Lamps provided on the unit will also tell you whether phase is open or which phase is open at a glance.
- Large size alligator chips :  
Can easily hold terminals of switch boards.
- Highly reliable :  
Can check a wide range of 3-phase power source from 200V to 600V. Sealed against dust, the unit ensures highly dependable and trouble-free performance.
- Functional design :  
Small, lightweight and portable.  
Designed for maximum ease of operation and ruggedness throughout.
- Safety design :  
No exposed metal parts. Safety features are incorporated throughout including minimize damage due to negligence.
- Safety standard :  
EN 61010-1 CAT IV 600V  
EN 61326-1

## 4. MEASURING METHODS

- Connect color coded alligator clips to the terminals of a 3-phase power source where a rotating electrical machine, such as a motor will be connected. Connecting order may be optional.
- Press the push switch button located on top of the unit. Keep this button pressed during phase sequence or open phase check. When the push switch button is released, it immediately goes off.
- Make sure that all of the three lamps for open phase check are on. If so, there is no open phase. When any of the three lamps is not on, there is open phase.

Open phase  
check lamp  
"R" is not on



Open phase on terminal  
where Red alligator  
clip is connected

Open phase  
check lamp  
"S" is not on



Open phase on terminal  
where White(or Yellow)  
alligator clip is connected

Open phase  
check lamp  
"T" is not on



Open phase on terminal  
where Blue(or Black )  
alligator clip is connected

※ When the open phase check lamps are not on, the rotating disc dose not turn.

- Check the rotating direction of the inside disc through the phase sequence indication window.
  - (1) When the rotating disc turns counter-clockwise, alternate the connection of the two of the three alligator clips. Then the rotating disc will turn clockwise.
  - (2) When the rotating disc turns clockwise phase sequence is R, S and T in order of the power source terminals where the Red, White (or Yellow) and Blue (or Black ) alligator clips are connected.

※ If the fuses are attached on 3 test leads, please replace the same one when fuses are broken.

※ Remark :

In case continuous use is necessary, it is recommended that making measurements does not operate continuously over 10 minutes, or keep a interval of ten-minute off operation at least.

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TestEquipmentDepot.com

## 5. SPECIFICATIONS

- Input Voltage : 200V AC up to 600V AC max.
- Frequency Range : 50/60 Hz.
- Withstand Voltage : 1,500V AC for one minute.
- Storage Temperature & Humidity :  
-10°C ~ +50°C at 90% max. relative humidity.
- Operating Temperature & Humidity :  
0°C ~ +40°C at 80% max. relative humidity.
- Dimension : 134(L) x 85(W) x 45(D) mm.
- Weight : 530g Approx.
- Cord : 1.1m each of Red(R), White or Yellow(S),  
and Black or Blue(T) cord.
- Accessories : Instruction manual  
Soft pouch

## 6. MAINTENANCE

- Cleaning and storage :

### **WARNING**

**To avoid electrical shock or damage to the meter, do not get water inside the case.**

Periodically wipe the case with a damp cloth and detergent; do not use abrasives or solvents.