



INSTRUCTION MANUAL
MT930
PHASE ROTATION INDICATOR



Contents

Page no








1. Introduction	4
2. Symbols	4
3. Safety Information	4
4. The Phase Rotation Indicator Ships with the Following Items	5
5. Elements of the Phase Rotation Indicator	5
6. Determine Rotary Field Direction	6
7. Specifications	6

1. INTRODUCTION




The phase rotation indicator is a handheld instrument designed to detect the rotary field of three-phase systems.

2. SYMBOLS

The following symbols appear on the Motor and Phase Rotation indicator or in this manual.

	Risk of electric shock
	Risk of Danger, Important information see manual.
	Hazardous Voltage.
	Equipment protected by double or reinforced insulation
	Earth
	AC or DC
	Conforms to EU directives
CAT III	Overvoltage (Installation) Category III. Pollution Degree 2 per ICE 1010-1 refers to the level of Impulse withstand voltage protection provided. Equipment of Overvoltage Category III is equipment in fixed installations (e.g., electricity meter and primary over-current protection equipment).

3. SAFETY INFORMATION

-  **CAUTION** identifies conditions and actions that may damage the phase rotation indicator.
-   **WARNING** identifies conditions and actions that pose a hazard to the user. To avoid possible electric shock or fire, do the following:
 - Read the following safety 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 looks damaged.
 - Be careful 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 phase rotation indicator in a wet environment.

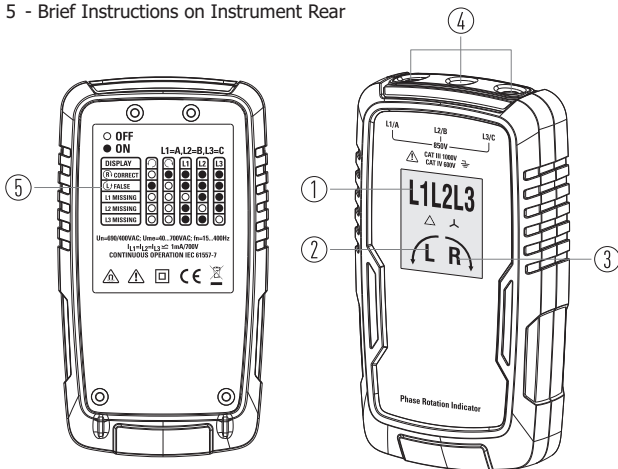
4. THE PHASE ROTATION INDICATOR SHIPS WITH THE FOLLOWING ITEMS

- 3 pieces self-retaining test probes
- 3 Alligator Clips
- Users Manual

Note: If an item is damaged or missing, contact the place of purchase immediately.

5. ELEMENTS OF THE PHASE ROTATION INDICATOR

- 1 - L1, L2, L3 Indicators
- 2 - Clockwise Rotation LCD Indicator
- 3 - Counter Clockwise Rotation LCD Indicator
- 4 - Test Lead Input Jack
- 5 - Brief Instructions on Instrument Rear



6. DETERMINE ROTARY FIELD DIRECTION

1. Connect the test probes to the end of the test leads.
2. Connect the test probes to the three mains phases.
3. The green ON indicator shows that the instrument is ready for testing.
4. Either the clockwise or counter-clockwise rotary indicator illuminates showing the type of rotary field direction present.
5. The rotary indicator lights up even if the neutral conductor, N, is connected instead of the Test lead input jacks.

7. SPECIFICATIONS

Function	Range
Nominal Voltage	40V to 850V AC between Phases
Frequency Range (fn)	15Hz to 400Hz
Current Pickup	1mA
Nominal Test Current (In per phase)	1mA
Maximum Operating Voltage (Ume)	850V AC
Operating Temperature	0°C to 40°C
Type of Protection	IP40
Dimensions (HxWxD)	135x75x31mm
Weight	135.6g
Approvals	CE (EU directives)
Safety	For indoor use and in accordance with the requirements for double insulation to IEC61010-1/ EN61010-1 IEC61557-7/ EN61557-7 Over voltage Category III 1000V and Category IV 600V, Pollution Degree 2.



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