INSTRUCTION MANUAL

WITH OPEN PHASE CHECKER & BUZZER

DIGITAL PHASE INDICATOR
MODEL 8030

KYORITSU ELECTRICAL INSTRUMENTS WORKS, LTD.
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1. Safety Warning

This instrument is designed, manufactured and tested to meet IEC-348 (Safety requirements for electronic measuring apparatus) safety class II.

This instruction manual contains warnings and safety rules that must be observed by the user to ensure safe operation of the instrument and retain it in safe condition. Therefore, read these operating instructions thoroughly and completely before using the instrument.

The symbol ▶ on the instrument means that the user must refer to the relevant section of this instruction manual for safe operation of the instrument.

Pay particular attention to all ▶ WARNINGS and ▶ CAUTIONS in this instruction manual. ▶ WARNING indicates warnings to avoid an electric shock and ▶ CAUTION indicates cautions to avoid damages to the instrument and make accurate measurements.

⚠️ WARNING
1. Never open the instrument when making measurements.
2. If the instrument is shown in the following conditions, do not attempt to make measurements and have the instrument checked for inspection or repair.
   a) Instrument is apparently broken in visual check.
   b) Test leads are damaged.
   c) Instrument can not be operated for intended measurements.
   d) Instrument has been stored for a long period of time under improper conditions.
   e) Instrument receives stress by severe transportation.
3. High voltage is loaded onto three phase lines. As it is very dangerous to get an electric shock, pay attention when you perform the work of connecting the instrument to the lines.
4. Even if all open phase lamps are not lit on, one phase may be still live circuit. Pay attention to avoid an electric shock.

⚠️ CAUTION
1. Never exceed the operational voltage specified as 200V to 480V AC three phase.
2. Make sure not to exceed the time limit for continuous operation
specified as 60 minutes at 200V and 4 minutes at 480V. The maximum time indicated above is measured from the time when more than 2 test leads of the unit are connected to the power supply cords.

3. The surface of the “suction disk” must be cleaned with a soft cloth to remove dust, grease or grime from it before use.

4. Do not expose the instrument to the direct sun, extreme temperature or dew fall.

5. The instrument must be used by a competent, trained person and operated in strict accordance with the instructions. Kyoritsu Electrical Instruments Works Ltd. will not accept liability for any damage or injury caused by misuse or noncompliance with the instructions or safety procedures. It is essential to read and understand the safety rules contained in the instructions. They must be observed when using the instrument.

2. Features

- Phase indicator designed to check the presence of open phase and also the phase sequence by LED and buzzer at the same time.

3. Specifications

<table>
<thead>
<tr>
<th>Operational Voltage</th>
<th>200—480V AC three phase</th>
</tr>
</thead>
<tbody>
<tr>
<td>Time Limit for Continuous use</td>
<td>60 minutes max. at 200V AC</td>
</tr>
<tr>
<td></td>
<td>4 minutes max. at 480V AC</td>
</tr>
<tr>
<td>Operating Frequency Range</td>
<td>20Hz—400Hz</td>
</tr>
<tr>
<td>Withstand Voltage</td>
<td>4000V for one minute</td>
</tr>
<tr>
<td>Dimensions</td>
<td>80 (L)×59 (W)×23 (D)mm</td>
</tr>
<tr>
<td>Weight</td>
<td>Approx. 200g</td>
</tr>
<tr>
<td>Test leads</td>
<td>Double insulated cords, approx. 1 meter long, prods for test leads, instruction manual, carrying case</td>
</tr>
</tbody>
</table>
4. Instrument Layout

① Open Phase Check LED’s
② Phase Sequence Check LED’s
③ Suction Disk
④ Test leads
⑤ Alligator Clips
⑥ Hand Strap
⑦ Prods

3 green LED’s
Green for Correct phase, Red for Reverse phase
Convenient for fixing the unit at a switchboard, etc.
Red for L1 (R), White for L2 (S) and blue for L3 (T).
Clip onto a wire or terminal not exceeding approx. 10mm in diameter.
Prevents the unit from slipping off the hand.
Convenient for using the test leads the same way as those for general purpose multimeters.
5. Measurement & Check Methods

5-1 Measurement Method
Connect the alligator clips of the unit to the three phase circuit under test. The unit will indicate the presence of open phase and phase sequence by LED and buzzer.

5-2 Check Method

<table>
<thead>
<tr>
<th>Open Phase Check LED’s</th>
<th>Phase Sequence Check LED’s</th>
<th>Buzzer</th>
</tr>
</thead>
<tbody>
<tr>
<td>Correct Phase (CW)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>All 3 green LED’s are lit</td>
<td>Green LED is lit</td>
<td>Intermittent beep</td>
</tr>
<tr>
<td>Reverse Phase (CCW)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>All 3 green LED’s are lit</td>
<td>Red LED is lit</td>
<td>Continuous beep</td>
</tr>
<tr>
<td>Open Phase (one phase only)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Green LED for open phase is off.</td>
<td>Both green and red LED’s are off.</td>
<td>Continuous beep</td>
</tr>
</tbody>
</table>
MEMO
Quality and reliability is our tradition

DISTRIBUTOR

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