1. SAFETY WARNINGS

1.1. Note that all tests are intended to be carried out in the safe condition and input voltages and current should not exceed the instrument's rating. Therefore, take reasonable precautions to ensure the instrument is used in a safe condition.

2. CAUTION

2.1. Make sure that the range selector switch is set to an appropriate position before applying the test voltage to the device under test. Extreme temperature conditions deteriorate the insulation, and should be avoided.

3. SPECIFICATIONS

3.1. The measuring method is based on the Basic Safety Insulation of the instrument. The measurement results are in accordance with the requirements of IEC 61140-2-29 and IEC 61557-3 standards.

3.2. The instrument is designed to meet the requirements of the IEC 61557-3 standard and is suitable for use in the following locations: industrial, commercial, and domestic environments. The instrument is not intended for use in hazardous locations.

3.3. The instrument is calibrated to meet the requirements of the IEC 61557-3 standard and is suitable for use in the following locations: industrial, commercial, and domestic environments. The instrument is not intended for use in hazardous locations.

3.4. The instrument is designed to meet the requirements of the IEC 61557-3 standard and is suitable for use in the following locations: industrial, commercial, and domestic environments. The instrument is not intended for use in hazardous locations.

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6. OPERATING INSTRUCTIONS

**Cautions**: 
- In order to avoid possible hazards when making measurement, please observe the following:
  - The transducer case is molded and therefore not completely isolated. Do not place the measurement lead or any other object between the transducer case and the measuring instrument.
  - Never make measurements with the battery compartment cover removed.
  - Keep your fingers and hands behind the cover when measurement is being made.

- Take sufficient care not to apply shock, vibration or excessive force. To avoid damage to the transducer, do not drop it. Be careful not to apply excessive force to the transducer case in use. In such cases, do not release the jaw guide and adjust the jaws to the jaw guide adjustment collar until the transducer case is ready.
- Do not touch the transducer case with bare hands since the case may become hot during use.

- When measuring output current (See Fig. 2), be sure to connect a low impedance load in series with the transducer.

- Do not make measurements while no current is flowing in the system.

6-1 Leakage Current Measurement

<table>
<thead>
<tr>
<th>Type of System</th>
<th>3-phase 3-wire system</th>
<th>Single-phase 2-way system</th>
</tr>
</thead>
<tbody>
<tr>
<td>Clamp Type</td>
<td>Clamp-on type</td>
<td>Clamp-on type</td>
</tr>
<tr>
<td>Number of Wires</td>
<td>3</td>
<td>2</td>
</tr>
</tbody>
</table>

6-2 How to Use Frequency Selector Button

When high frequency components are present in the test object, turn the following switch from “OFF” to “PERIOD” or “LOW” to “WIDE”. A “PERIOD” (or “WIDE”) switch can be selected by turning the switch. Select the one that is most suitable for the component of frequency in the test object.

- When high frequency components are present in the test object, set the “PERIOD” switch to “WIDE”.
- When low frequency components are present in the test object, set the “PERIOD” switch to “OFF”.


7. OTHER FUNCTIONS

7-1 Sleep Function

This is a function to prevent the instrument from being left powered on for extended periods of time. The Sleep function is activated about 10 minutes after the last visual function.

- To use the Sleep Mode:
  1. Press and hold the Sleep Mode button (“SLEEP”) until “Sleep” is displayed.
  2. Press and hold the Sleep Mode button until “Sleep Off” is displayed.

7-2 Date Hold Function

This is a function to freeze the readings on the display. When the data hold function is turned on, the instrument will freeze the measurement result on the display.

- To use the Data Hold Function:
  1. Press and hold the Data Hold button (“DATA HOLD”) until “Data Hold” is displayed.

8. BATTERY REPLACEMENT

- Do not mix old and new batteries.
- Do not use rechargeable (Ni-Cd) batteries.
- Insert the batteries inside the battery compartment. Do not reverse the battery polarity.
- Do not dispose of the batteries in fire.
- Always set the Range Selector switch to “OFF” to turn off the instrument’s power when not in use.

9. OPTIONAL ACCESSORIES

- Model B009: 3-screw for fixing the instrument to the test object.
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- Note: Model B009 cannot be used for leakage current measurement. For leakage current measurement, refer to the manufacturer’s specifications, note the section for Model B009.