1. Features

- This product is an optional accessory and designed for our KEW5050 for leakage current meter. It can supply power (12V DC) when combined and used together with MODELS7282 AC adapter and MODELS7278 earth cable. In this case, KEW5050 can measure voltages up to 240 V AC (50 Hz).

2. Safety warnings

- This product has been designed, manufactured and tested according to IEC 61010. Safety requirements for electronic measuring apparatus, and delivered in the best condition after passing quality control tests. This instruction manual contains warnings and safety procedures which have to be observed by the user to ensure safe operation of the product and maintain it in safe condition. Therefore, read through these operating instructions before starting to use the product.

- Ensure that KEW5050 and MODEL8329 are both powered off.
- Attach and screw the fuse holder cover. 
- Loosen the screw on the top side, and remove the fuse holder cover.
- Connect the alligator clip of MODEL7273 voltage test lead to the circuit.
- Set a new fuse to the fuse holder.
- Ensure that the power switch is set to OFF.
- Firmly connect the connection terminal of MODEL7278 earth cable to
- Firmly connect the power plug of MODEL8329 to MODEL8262 AC
- Connect MODEL7273 voltage test leads to the power input terminals
- Take out the fuse*.

**WARNING**
- Read through and understand the instructions contained in this manual before starting to use the product.
- Keep the manual at hand to enable quick reference whenever necessary.
- The product is to be used only in its intended applications.
- Understand and follow all the safety instructions contained in the manual.
- It is essential that the above instructions are adhered to. Failure to follow the above instructions may cause injury or product damage, and/or damage to the equipment under test. Kyoritsu assumes no responsibility for damage and injury caused by misuse or not following the instructions in the manual.

- The symbol * indicates on the product, means that the user must refer to the related parts in the manual for safe operation of the product. It is essential to read the instructions whenever the symbol appears in the manual.

**DANGER**: is reserved for conditions and actions that can cause serious or fatal injury.

**WARNING**: is reserved for conditions and actions that are likely to cause serious or fatal injury.

**CAUTION**: is reserved for conditions and actions that can cause injury or instrument damage.

- Do not attempt to use in the presence of flammable or explosive gasses, or in steam environment.
- Never attempt to use the product if its surface or your hand is wet.
- The product is to be used only in its intended applications or conditions. Otherwise, safety functions equipped with the product doesn’t work, and damage to the product or personal injury may occur.
- When the product is used with KEW5050, the fuse rated to 200mA will be inserted as a fuse of the product. Otherwise, the product, AC adapter or KEW5050 may be damaged or electrical accident may occur.
- Rated power frequency (of the product is 50 Hz).
- Use MODELL7273 voltage test leads supplied with KEW5050.
- Use MODELS7282 AC adapter supplied with KEW5050.
- Ensure that the power plug is firmly connected to the AC adapter.
- Always connect the product to KEW5050 first, and then to the measurement line.
- Do not disconnect voltage test leads from the input terminals (N-L) of the product during a measurement.
- Do not disconnect the product from KEW5050 during a measurement.
- Disconnect all the cables connected to the product before replacing fuses; put a new fuse of the same rating.

**WARNING**
- Turn off the power switch when connecting to KEW5050.
- Keep the fuse holder cover screwed and closed during a measurement.
- Never attempt to make measurement of any abnormal conditions are noted, such as cracks or exposed metal parts.
- Do not install substitute parts or make any modification to the product.
- Return the product to your local Kyoritsu distributor for repair.

**CAUTION**
- Examine the conductor under test before starting a measurement; it might be hot.
- Never give strong vibrations or drop shocks.
- The product is not dust/water proof. Do not use the product at dusty places or to be spattered.
- Care should be taken so as not to damage the cable jacket.
- Do not pull or bend the end of the cable to prevent a break in the cable.
- Use a damp cloth with neutral detergent or water for cleaning the product.
- Do not use abrasives or solvents.

**Meaning of symbols on the product:**

- User must refer to the explanations in the instruction manual.
- Double or reinforced insulation
- AC
- Crossed-out wheel bin symbol (according to WEEE Directive 2002/96/EC) indicating that this electrical product may not be treated as household waste, but that it must be collected and treated separately.

3. Specifications

<table>
<thead>
<tr>
<th>Specification</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Input voltage</td>
<td>100 to 240 V AC (50 Hz/60 Hz)</td>
</tr>
<tr>
<td>Location for use</td>
<td>Indoor use, altitude 2000m or less</td>
</tr>
<tr>
<td>Operating temp. &amp; hum. range</td>
<td>-20°C to 50°C, relative humidity 5% or less (no condensation)</td>
</tr>
<tr>
<td>Storage Temp. &amp; hum. range</td>
<td>-20°C to 60°C, relative humidity 85% or less (no condensation)</td>
</tr>
<tr>
<td>Dimension</td>
<td>Ø6.3 x 32mm x 40.5 x 75.5 x 75.5 mm* excluding the plug &amp; cable</td>
</tr>
<tr>
<td>Cable length</td>
<td>Approx. 180mm</td>
</tr>
<tr>
<td>Weight</td>
<td>Approx. 115g</td>
</tr>
<tr>
<td>Connector</td>
<td>Approx. 150 mm to 600 V AC, fast acting type, Ø 3 x 32mm</td>
</tr>
<tr>
<td>Accessories</td>
<td>One fuse (installed), Instruction manual</td>
</tr>
<tr>
<td>Applicable standard</td>
<td>E61010-1 CAT III/240 V Pollution degree 2</td>
</tr>
<tr>
<td>E6293 IP 40</td>
<td></td>
</tr>
</tbody>
</table>

4. How to use

- Ensure that KEW5050 and MODELS8329 are both powered off.
- Connect MODELL7273 voltage test leads to the power input terminals (N-L) of MODELS8329 respectively, and then connect the plugs of MODELL7278 earth cable to the power meter and primary overcurrent protection device (distribution panel).
- Firmly connect the power plug of MODELS8329 to the reference voltage input terminal of KEW5050.
- Connect the output terminal of MODELS8262 AC adapter to the female connector of MODELS7278 earth cable.
- Connect the clip of MODELS7278 earth cable to a well-known earth terminal.

**MODEL7278 earth cable**

**DANGER**

- Always check so as not to connecting the clip other than earth terminal.
- Never connect to a live wire.

**Note:**

- Always earth the product with the supplied earth cable when making measurements using AC adapter; otherwise, stable readings cannot be obtained.
- Connect the alligator clip of MODELL7273 voltage test lead to the circuit under test.
- Power on MODELS320.
- Confirm that (AC adapter) icon appears on the LCD of KEW5050.
- If (Battery) icon is displayed, the connections may incorrect or the fuse inside MODELS320 may have blown.

5. Product layout

6. Fuse replacement

- Ensure that the power switch is set to OFF.
- Disconnect all cables from the product.
- Loosen the screw on the top side, and remove the fuse holder cover.
- Take out the fuse*.
- Set a new fuse to the fuse holder.
- Attach and screw the fuse holder cover.

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**Kyoritsu reserves the rights to change specifications or designs described in this manual without notice and without obligations.**

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**POWER SUPPLY ADAPTER**

**MODEL 8329**

**KYORITSU ELECTRICAL INSTRUMENTS WORKS, LTD.**

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**Measurement Category**

To ensure safe operation of measuring instruments, IEC 61010 establishes safety standards for various electrical environments, categorized as O to CAT IV, and called measurement categories. Higher-numbered categories correspond to electrical environments with greater momentary energy, so a measuring instrument designed for CAT III environments can endure greater momentary energy than one designed for CAT II.

O (None, other) : Circuits which are not directly connected to the mains power supply.

CAT II: Electrical circuits of equipment connected to an AC outlet by a power cord.

CAT III: Primary electrical circuits of the equipment connected directly to the distribution panel, and feeders from the distribution panel to outlets.

CAT IV: The circuit from the service drop to the service entrance, and to the power meter and primary overcurrent protection device (distribution panel).

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**5. Product layout**

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**6. Fuse replacement**

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