**1. SAFETY WARNINGS**

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

**WARNING**
- Read and understand instructions contained in this manual before using the instrument.
- Plug the red test lead into the + (positive) terminal and the black test lead into the - (negative) terminal.
- Return the instrument to your local KYORITSU distributor for repair or re-calibration in case of suspected faulty operation.
- Never attempt to replace the batteries if the surface of the instrument is wet.
- The test leads are firmly inserted into the terminal.
- The function of the test leads is removed from internal instrument, and the instrument is switched off when the test lead contacts the battery cover for battery replacement.

**DANGER**
- Never attempt to use the instrument if its surface or its hand are wet.
- Do not exceed the maximum allowable input of any measuring range.

**CAUTION**
- Always set the switch to the appropriate position before making measurement.
- Never reverse the Function switch with the test leads connected to the equipment under test.
- Set the Function switch to the “OFF” position after use and remove the test leads. Remove the batteries if the instrument is to be stored and will not be in use for a long time.
- Do not give impact drops and immerse the instrument to direct sunlight, high humidity, or dew.

**NOTE**
- Plug the red test lead into the + (positive) terminal of the instrument and the black test lead into the – (negative) terminal.
- Always make sure that the fuse is in good condition for a long period of time.

**2. FEATURES**

- Designed for safety
- User oriented safety features throughout the instrument.
- No exposed metal on the external case and the test leads with shielded banana plugs to give only a couple of examples.

**FUNCTIONAL DESIGN**
- Instrument designed to allow the maximum ease of operation. Sim. compact, lightweight and truly portable.
- Front panel is designed to prevent accidental setting changes and actions that can cause serious or fatal injury.
- Highly Reliable & Accurate
- Guaranteed to be accurate within ±3% of scale length. Self-shielding core magnet type movement ensures accurate measurements.
- Sloping front panel permits easy reading.
- Housing cover protected by fuse and diode against accidental overload.
- Guaranteed to be accurate within ±3% of scale length.
- Accuracy: ±3% of full scale plus 0.5 divisions.

**3. INSTRUMENT LAYOUT**

- Set the range switch to the desired position and make the measurement.
- Note: Make sure to turn off power when the resistance of a circuit is measured.

**7-1 DC Voltage Measurements**

1. Set the range switch to the desired position and make the measurement.

1. Plug the red test lead into the plus terminal and the black test lead into the minus terminal.

2. Set the range switch to DC 0–20V.

3. Connect the test lead to the circuit under test and measure the voltage.

**7-2 AC Voltage Measurements**

1. Set the range switch to AC 200V.

2. Connect the test lead to the circuit under test and measure the voltage.

**7-3 DC Current Measurements**

1. Set the range switch to DC 200mA.

2. Connect the test lead to the circuit under test and measure the current.

**7-4 Resistance Measurements**

1. Set the range switch to DC 2000Ω.

2. Connect the test lead to the circuit under test and measure the resistance.

**Temperature Measurements**

1. Insert red voltage test lead into plus (+) terminal and black test lead into minus (−) terminal.

2. Set range switch to TEMP position.

3. Do not make measurements with the instrument case opened.

4. Note: Read temperature direct from temperature scale. On the direct-read meter cover.

**BATTERY TEST**

1. Plug the red test lead into the plus terminal and the black test lead into the minus side for battery tests.

2. Do not make measurement with the instrument case opened.

**FUSE & BATTERY REPLACEMENTS**

- Where the fuse has blown remove the instrument cover to replace the fuse.

- Make sure to use the 0.5A 250V fuse as specified. The use of any other substitute may damage the instrument.

- When the battery is weak the ohm zero adjustment becomes impossible. Accuracy decreases and the measurements cannot be made without the ohm zero adjustment. Return the instrument for replacement of the weak battery with a new one.

**CLEANING METER COVER**

- Do not try to remove dust on the meter cover by rubbing hard with a cloth. This can remove and damage the anti-static agent applied to the surface of the meter cover.

- When the meter reading is affected by electrostatic build-up on the meter cover, wipe the meter cover surface using a cloth dampened with an anti-static agent.

- To avoid possible deformation or discoloration do not use solvents.

**CAUTION**

- Never use paint thinner, benzene or other solutions containing solvents for cleaning the instrument.

- Other maintenance items, descaling or discoloration of the instrument body or the meter cover may result.

**DISTRIBUTOR**

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<tr>
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<th>MAKER</th>
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<tr>
<td>TESTED: 10</td>
<td>itm.sh</td>
<td>KYORITSU ELECTRICAL INSTRUMENTS WORKS, LTD.</td>
</tr>
<tr>
<td>ADDRESS: 5</td>
<td></td>
<td>No. 5-8, 1</td>
</tr>
<tr>
<td>CITY: Tokyo</td>
<td></td>
<td>115, Japan</td>
</tr>
<tr>
<td>PHONE: 81-3-3</td>
<td></td>
<td>381-8592</td>
</tr>
<tr>
<td>FAX: 81-3-3</td>
<td></td>
<td>381-8592</td>
</tr>
<tr>
<td>WEBSITE: <a href="http://www.kew-itt.co.jp">www.kew-itt.co.jp</a></td>
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**SPECIFICATIONS**

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**INSTRUCTION MANUAL**

**ANALOG MULTIMETER MODEL 1106**

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