INSTRUCTION MANUAL
DIGITAL MULTIMETER
KEW1020R

1. Safety Warnings
This instrument has been designed, manufactured and tested according to E.C. 1013/2001 for the requirements of such equipment. This instrument conforms to IEC 61010-031 and shall have a voltage rating of 1000V or higher.

NOTE
• The connection must be realized according to the requirements of the instrument and must be in safety condition. Therefore, read these operating instructions carefully and make sure all the safety instructions contained in the manual are followed. It is essential that the above instructions are adhered to. Failure to comply with these instructions may impair the protection provided by the instrument and test leads, and may cause injury. The manufacturer shall have no liability for any damage to the instrument.

1.1 A/CV / DCV / AcM / DcM Measurement
(1) Set the Function switch to A/CV or DCV or AcM or DcM position and press the SELECT key.

1.2 Clamp sensor (option) measurement
(1) Set the Function switch to AcMv or DcMv or DCm position and press the SELECT key. LCD shows "SENSING".

2. Wiring Diagram

NOTE
• The connection must be realized, the "-" mark will be displayed on the LCD (DCMv measurement).
• Press the REL key to adjust the reading on the DC clamp sensor to 0.
• The sensor mates correspond to direct reading with TINW63 output clamp sensor.

3.2 Clamp sensor (option) measurement
This instruction manual contains warnings and safety rules which have been prepared to ensure the safety and protection of the user. The instrument is to be used only in its intended applications. If the instrument is used inappropriately, it may cause injuries to the user or damage to the instrument.

FUNCTION SWITCH
If the connection is reversed, the "mark will be displayed on the LCD.

DCMv

1. Measuring method
The circuit from the service drop to the service entrance, and the circuit from the service entrance to the service transformer, may cause malfunction when the test leads are shorted. However, these phenomena don’t affect to the readings if there is a high resistance or capacitance components.

CAUTION
• Use of this instrument is limited to domestic, commercial and light industrial use only. Do not use this instrument to measure strong magnetic fields, generated by large currents, may cause malfunction of the instrument. Do not use this instrument to measure strong magnetic fields, generated by large currents, may cause malfunction of the instrument.

3. DANGER
• Never make current measurement exceeding the designated measurement category and the rated voltage of the instrument.
• Do not attempt to measure in the presence of flammable gases. Otherwise, the use of the instrument may cause sparking which can lead to explosion.
• Never use the instrument if its surface or your hands is wet.
• Do not exceed the maximum allowable input of any measuring range.
• Do not operate the instrument in an environment containing corrosive gas.

WARNING
• Never attempt to measure current if any abnormal conditions, or if the measured values exceed the range of the instrument or test leads.
• Proceeds with caution and use the lowest value range when performing measurements in CAT III or higher test environments. When 42200-10 or CAT IV measurement, use CAT IV Type-II category & voltage to earth of each either of them is applicable.

CAUTION
• Do not mix old and new batteries. Batteries of the batteries to be used should be harmonized.

6. Battery Replacement
(1) Set the Function switch to "OFF" position.

5. Battery life : Approx. 200 hours (ACV, continuous, no load, with R03)