Cautions for using this clamp sensor with KEW5010/5020:

Some KEW5010/5020 that were manufactured before the specific testing of production may not be used with this clamp sensor. Please refer to “6-2 Connecting with Logger (KEW5010/5020)” and check the serial no.

1. SAFETY WARNINGS

This clamp sensor has been designed and tested according to IEC61010-1: Safety Requirements for Electrical Measuring Apparatus, and delivered in the best condition after passing quality control tests. This manual contains warnings and safety rules which have to be observed by the user to assure safety of the clamp sensor and to maintain it in safe condition. Therefore, read through these operating instructions before using the clamp sensor.

**DANGER**

Read through and understand all instructions contained in this manual before starting to use the clamp sensor.

**WARNING**

Keep the manual at hand to enable quick reference whenever necessary.

**CAUTION**

The clamp sensor is to be used only in its intended applications. Understand and follow all the safety instructions contained in the manual.

(1) It is essential that the above instructions are adhered to. Failure to follow these instructions may result in serious or fatal injury. Do not use the clamp sensor in the case of suspected faulty operation.

(2) Exposing the body to direct current of more than 300V for CAT. IV and 600V for CAT. III or lower categories.

(3) Never expose the clamp sensor to direct sunlight, high temperatures, humidity or dew. Otherwise, it may cause deformation or insulation trouble.

(4) Never expose the clamp sensor to direct sunlight, high temperatures, humidity or dew. Otherwise, it may cause deformation or insulation trouble.

(5) When using the clamp sensor for measuring insulation resistance, do not apply excessive force to the clamp sensor. It may cause trouble or malfunction.

(6) Use the clamp sensor only when it is used in the categories that are applicable to the clamp sensor. Otherwise, hazardous situations may happen.

(7) Keep the clamp sensor clean and treated separately.

(8) Do not apply around or remove from un-insulated hazardous live conductors, which may render electric shock, electric burns or an electric fire.

(9) Never apply the current exceeding the measuring range for a long time. It may damage the clamp sensor.

(10) Never connect/remove the connectors while connected devices are wet. Otherwise, it may cause troubles on the clamp sensor.

(11) Do not apply excessive force to the clamp sensor. It may damage the clamp sensor, during transit or use.

2. FEATURES

This is a Clamp Sensor capable of measuring AC current up to 1000A.

Flexible and lightweight because of an air core coil used at the Clamp Sensor part.

3. CLAMP SENSOR LAYOUT

3.1 Output terminal

1. Joint part of the sensor

2. Cable

3. Clamp sensor

4. PIN ASSIGNMENT FOR OUTPUT TERMINAL

The pin assignment for the output terminal of this clamp sensor is as follows.

1. Output signal between 2 and 3 of Output terminal.

2. This clamp sensor is supplied via an Output cable. Power supply of +5.5 to +6.5V is required between 2 and 3 of Output terminal and -3.0 to -5.5V is required between 2 and 3 of Output terminal.

5. SPECIFICATION

- Model name: KEW8130
- Input voltage: AC0 - 1000Arms (1850Apeak)
- Measuring range: AC0 - 1000Arms (1850Apeak)
- Output terminal: MINI DIN 6PIN
- Cable length: Between clamp sensor – circuit box: approx. 0.2m
- Between circuit box – output terminal: approx. 0.2m
- Measureable conductor size: Max ø 110mm
- Output signal: ±1.5%rdg±0.4mV(40 - 1kHz)
- Measuring range: 45 to 65Hz: within ±2°
- 40 to 1kHz: within ±3°
- Phase characteristics: 45 to 65Hz: within ±3°
- 40 to 1kHz: within ±3°
- Environment: Temperature & humidity: -10°C to 40°C; Relative humidity: 85% or less
- Reference test position of the conductor (no load, off load)

6. OPERATING INSTRUCTIONS

6.1 DANGER

With attention to the measurement category to which the object under test belongs, and do not make measurements on a circuit in which the electrical potential exceeds the following values 300V for CAT. IV and 600V for CAT. III or lower categories.

6.2 Measuring method

(1) Connect the output terminal to the terminal of the measuring instrument. (2) Do not apply excessive force to the clamp sensor. (3) Press the Joint according to the following illustrations and unlock it.

7. CLAMP SENSOR LAYOUT

- Use insulated protective gears for your safety when using this clamp sensor.

- Do not bend or pull theroot of the cable in order to prevent breaks in the cable.

- Never connect/remove the connectors while connected devices are wet. Otherwise, it may cause troubles on the clamp sensor.

- Do not disassemble, install substitute parts or make any modifications to this clamp sensor. It is essential to read the instructions wherever the symbol appears in the manual.

- The symbol # is reserved for conditions and actions that can cause serious or fatal injury.

- The symbol ^ is reserved for conditions and actions that can cause injury or material damage.

- The symbol § is reserved for conditions and actions that can cause injury or loss of life.

- The symbol § is reserved for conditions and actions that can cause injury or material damage.

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