1. Safety warnings

- **WARNING**
  - KEW 8177/8178 for leakage clamp sensor (Sensor) has been designed in accord with the requirements of EC 61010-2-032 Safety Level III/III (CAT IV) according to CAT IV requirements for Electronic Measuring apparatus, and delivered in accordance with that of current input terminals (red: A1, yellow: A2, blue: A3, L1/R: N, L1/R: L1).
  - KEW 8177/8178 is a CAT IV application compliant model. It is essential that the above instructions are adhered to. Failure to follow the instructions may cause injury or damage to the Sensor.

  **DANGER**
  - Do not make measurements when thundering. If the Sensor is in use, stop the measurement immediately and remove the Sensor from the power supply. The transmitter jaws are designed so as not to short-circuit the object under test. Special precautions should be especially careful about the possible shorting where the measured object has uninstalled insulation. Never attempt to use the Sensor in such or your hand is wet.

  **CAUTION**
  - Always keep your fingers and handle behind the barrier on the Sensor to avoid the possibility that a power supply may be touched.
  - Never attempt to make any measurement if any abnormal conditions are noted in the instruction manual, and listen to the recorded voice guidance.
  - Never install substitute parts or make any modification to the Sensor.

  Return the Sensor to your local distributor for repair or re-calibration if the above symptoms appear.

  **DANGER**
  - The symbol D marked on the Sensor means that the user must refer to the related parts in the manual for safe operation of the Sensor. It is essential to read the instructions wherever the symbol appears in the manual.

  **WARNING**
  - Never make measurements in CAT III environments if electrical shock at the workplace.
  - Wear insulated protective gears to reduce the risks such as sparking, which can lead to an explosion.
  - Never give shocks, such as vibration or drop, which may damage the Sensor.

  **CAUTION**
  - Do not attempt to make measurements in the presence of magnetic field.
  - If there is a presence of strong magnetic field, use the Sensor at a distance as far as possible. The followings are impossible to eliminate the interference of external magnetic field completely. If there are not such a condition, use the Sensor with the following precaution.
  - Do not install substitute parts or make any modification to the Sensor.

  Return the Sensor to your local distributor for repair or re-calibration if the above symptoms appear.

  **CAUTION**
  - The Sensor is not due to the object under test. Don’t use the Sensor at a distance as far as possible.

  **DANGER**
  - Do not attempt to make measurements if any abnormal conditions are noted in the instruction manual.
  - Never attempt to make any measurement if any abnormal conditions are noted.
  - Do not install substitute parts or make any modification to the Sensor.

  Return the Sensor to your local distributor for repair or re-calibration if the above symptoms appear.

  **DANGER**
  - Take sufficient care to avoid shock, vibration or excessive force when handling the Sensor.

- **CAUTION**
  - Take sufficient care to avoid shock, vibration or excessive force when handling the Sensor. Otherwise, precisely adjusted transformer jaws will be damaged.

- **DANGER**
  - Never attempt to make any measurement if any abnormal conditions are noted in the instruction manual.

- **CAUTION**
  - It is essential that the above instructions are adhered to. Failure to follow the instructions may cause injury or damage to the Sensor.

2. Features

- KEW 8177/8178 are clamp sensors to measure for leakage current.

- Provides the best phase characteristics when combined and used with KEW 5050 leakage logo.

- Designed to meet IEC 61010-2-032 (CAT III, Pollution degree 2).

3. Sensor layout

**NOTE**
- Connect the clamp sensor and the voltage test lead properly.
- The symbol D marked on the Sensor means that the user must refer to the related parts in the manual for safe operation of the Sensor.
- It is essential to read the instructions wherever the symbol appears in the manual.
- KEW 8177/8178 is a CAT IV application compliant model. It is essential that the above instructions are adhered to. Failure to follow the instructions may cause injury or damage to the Sensor.
- KEW 8177/8178 is for leakage clamp sensor (Sensor) has been designed in accord with the requirements of EC 61010-2-032 Safety Level III/III (CAT IV) according to CAT IV requirements for Electronic Measuring apparatus, and delivered in accordance with that of current input terminals (red: A1, yellow: A2, blue: A3, L1/R: N, L1/R: L1).
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