DQ10

Cable Fault Testing High-Voltage Bridge

1. Extremely simple operation, small size, and light weight.

2. Easily measures fault distances for fault types that are difficult to measure using the pulse method.

3. Conveniently verifies fault distances that can be measured using the pulse method.

Product Features:

1. Extremely simple operation, small size, and light weight.

2. A high-sensitivity amplifier and a galvanometer for balance indication form a balanced bridge with a proportional potentiometer, and the entire assembly is placed at high potential. The control knobs on the panel are at low potential, and the bridge is operated via an insulated rod.

3. For the following cable fault types that are difficult to measure using the pulse method, fault distances can be conveniently determined:

   a. Insulation defect points in the sheath of extra-high voltage cables;

   b. Extensive moisture at fault points;

   c. Insulation imbalance in three-phase cables (a complete fault has not formed, but there are latent fault points that do not meet operational requirements);

   d. Phase-to-ground/armor faults in steel-tape armored low-voltage cables;

   e. PVC cables with significant waveform attenuation.

4. For fault distances that can be measured using the pulse method, verification can also be conveniently conducted.

Technical Specifications:

1. Maximum Voltage: 30kV

2. Maximum Current: 50mA

3. Positioning Proportion Accuracy: ±(0.2%·L + 1) m

4. The instrument's internal circuit has enhanced protection; even if the cable has flashover breakdown during testing, it will not cause damage to the instrument.

5. Weight: 5 kg

6. Dimensions: 327 mm × 282 mm × 218 mm

7. Operating Power Supply: 220 V AC (50 Hz) ±10%

Note: A DC high-voltage source for this device needs to be purchased separately, or it can be used with the user's existing DC high-voltage source.

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