

**TECHNOLOGY  
PRODUCTS**



**MIKO 21**



**SKB MEP**  
DIAGNOSTIC INSTRUMENTS  
FOR HIGH-VOLTAGE EQUIPMENT



## Miko 21



- Measures resistance from  $0.1 \mu\Omega$  to  $2 \Omega$ .
- Test current output adjustable from 1A to 200A.
- Multiple starting modes for flexible operation.
- Battery-operated for portability with up to 8 hours runtime.
- USB and touchscreen control for easy data management.

**The instrument is designed for high precision measurements of DC electrical resistance utilizing a test current of <200 A and can test:**

- contacts of high-voltage circuit breakers of all types and voltage classes;
- contactors, relays, busbars, various bolted connections, welded joints, brazed joints;
- elements of equipment for open and closed switchgears in extreme electric and magnetic field conditions;
- in research laboratories and industrial workshops.

**The user can set the current output in several ways:**

- By selecting from specified values: 10 A, 50 A, 100 A, and 200 A;
- By setting the automatic mode for selecting the current output;
- Program a setting of the test current in the range of 1 A to 200 A at a step of 1 A.



The instrument automatically compares the measured resistance value with the nominal value and notifies the user. This feature is implemented through the integral database containing the nominal values of contact resistances of the main contacts of the high-voltage circuit breakers and nominal values for rejected resistors indicating the permissible values of resistance thresholds.

### The device has 4 starting modes for the measurement process:

- **Single** - normal start by the user pushing the START button;
- **AUTO single circuit** - intended for automatic single start of the measurement process upon connecting the test cables, activated by pressing the START button;
- **Periodic** - intended for automatic start of the measurement process with a set period after pressing the START button;
- **AUTO periodic circuit** - intended for automatic periodic (continuous) start of the measurement process upon connection of test cables, activated by pressing the START button.

Battery-operated power supply, low weight and compact dimensions provide full portability and high mobility of the instrument in an extended area.

The instrument can be controlled via keyboard, touch-screen or PC, and the data can be copied directly to a PC or USB Flash drive.

MIKO-21 uses special programmed algorithms for measuring contact resistance of high-voltage circuit breakers with built-in current transformers (CT):



Mode 1 is designed to measure resistance of circuits without current transformers;

Mode 2 is designed to measure resistance in the circuits with the current transformer with minimal battery power consumption;

Mode 3 is designed to measure resistance in the circuits with the current transformer at a current of 100 A or 200 A without saving battery power.

### **Standard Complete Set :**

- Accompanying documents
- Main instrument MIKO-21
- 200A Kelvin Clamps test cable 2 x 2m (1.12 kg) with jaw up to 50 mm.
- Mains cable
- Ground cable
- Shunt 75 ShSM M3.75A-0.5 to check the instrument's operability.
- Fuses VP2B – 1V-2A (2 pcs)
- Bag for transportation of cables

### **\* Optional accessories on request**



## General Features

- **Resistance range:**  $0.1\ \mu\Omega$  -  $2\ \Omega$
- **Resolution:**  $0.1\ \mu\Omega$
- **Accuracy:**  $\pm 0.05\%$
- **Test current output:** 1 - 200 A
- **Measurement display resolution:** 5 digits
- **Measurement time:**  
Mode 1:  $\leq 2\text{ s}$   
Mode 2: 10 - 30 s  
Mode 3: 5 - 15 s
- **Power supply (built-in battery):** Li-ion battery
- **Battery charging time:**  $< 2\text{ h}$
- **Battery runtime (in continuous operation):** 8 h
- **Built-in memory:** 2,000 measurements (64 MB)
- **PC connection:** USB and USB host
- **Display:** Colour graphic touch-screen,  $480 \times 272$  pixels
- **Power consumption:**  $< 60\text{ W}$
- **Power supply (mains voltage):** AC 90-264 V, 47-63 Hz DC 127-370 V
- **Dimensions:**  $270 \times 246 \times 124\text{ mm}$
- **Instrument weight:** 3.3 kg
- **Environmental protection:** IP 67 (device cover closed) IP 40 (device cover open)
- **Operating temperature range:**  $-20^{\circ}\text{C}$  -  $+50^{\circ}\text{C}$
- **Warranty period:** 3 years
- **Recommended calibration interval:** 3 years
- **Interface and user manual language:** English



# Over 35 Years of Industry Experience



At Technology Products, we are a premier manufacturer and supplier of cutting-edge Electrical Testing, Measuring, and Safety Equipment, with capabilities up to 800 KV. Our expertise extends beyond equipment design and manufacturing to offering solutions for Electrical Safety and Testing—from concept to commissioning. Trust us to deliver precision, safety, and innovation in every project.





# Get in Touch



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