

**TECHNOLOGY
PRODUCTS**



MIKO 8M(A)



SKB-EP

DIAGNOSTIC INSTRUMENTS
FOR HIGH-VOLTAGE EQUIPMENT



Miko 8M(A)



- Measures DC resistance from $1\ \mu\Omega$ to $10\ \text{k}\Omega$.
- Automatic calculation of resistance and temperature deviation.
- Dynamic Resistance Measurement (DRM) for OLTC assessments.
- Built-in memory for up to 1,000 measurements.
- Available with or without a built-in battery for portability.

The instrument is designed to measure the DC resistance in inductive and non-inductive circuits in the range of $1\ \mu\Omega$ - $10\ \text{k}\Omega$, as well as to generate oscillograms of the switching contactor in the high-speed OLTC.

MIKO-8M(A) features specialized measurement modes for different configurations of 10 objects, taking into account their specific features, while the user can choose a standard object or create a custom object. This functionality enables the user to organize the measurement results, and to ensure easy workflow with the saved data.

Depending on the type of object, user can select special measurement modes. For example, for a resistive object, user can select one of three modes: AUTO, SINGLE (similar to MIKO-7M(A) or PERIOD when the measurement process is started automatically after a specified time interval.

When diagnosing an inductive object, the modes are the same as in MIKO-7M(A): MANUAL and AUTO 1ph.

In the AUTO 1ph mode, a patented automatic measurement method is implemented, which guarantees the highest accuracy of the results in a complex electromagnetic environment.



MIKO-8M(A) has a number of automatic calculation functions:

- Calculation of the relative deviation of resistance in the windings of three phases between them;
- Conversion of linear resistance to phase resistance;
- Conversion of the resistance measured at the current temperature to the resistance at the nominal temperature value;
- Calculation of the relative deviation between the corrected resistance value and the nominal resistance value;
- Calculation of the current temperature of the winding based on its electrical resistance.

OLTC in-place check mode in MIKO-8M(A) allows the user to assess the state of the switching OLTC equipment with current limiting resistors without removing contactor tank cover (DRM – Dynamic Resistance Measurement method).

The DRM graph is built on the basis of the measurement results. This graph enables to check tap changing time and general object state.

The device is provided in two versions. The point of difference between the MIKO-8M and MIKO-8MA is the built-in battery (MIKO-8MA).



General Features

- **Measurement range:** 1 $\mu\Omega$ - 10 k Ω
- **Resolution:** 0.1 $\mu\Omega$
- **Accuracy:** $\pm(0.1\%+0.5 \mu\Omega)$
- **Test current output:** 0.001 - 10 A
- **Test current range in DRM mode:** 0.1 - 10 A
- **Measurement display resolution:** 5 digits
- **Power supply of MIKO-8MA (built-in battery):** Lithium-ion battery
- **Battery charge time of MIKO-8MA:** 3h
- **Battery runtime of MIKO-8MA (in continuous operation):** 8 h
- **Built-in memory:** to 1 000 measurements
- **PC connection:** USB, Bluetooth
- **Display:** TFT color graphic touch, 800 x 480 pixels
- **Power consumption:** 120 W
- **Output:** 60 W
- **Power supply (mains voltage):** ~ 90-253 V, 47-63 Hz = 127-354 V
- **Dimensions:** 270 x 250 x 130 mm
- **Weight of MIKO-8M / MIKO-8MA:** 2.7 kg / 4.0 kg
- **Environmental protection:** IP 67 (device cover closed) IP 40 (device cover open)
- **Operating temperature:** from -20°C to +55°C
- **Warranty period:** 3 years
- **Recommended calibration interval:** 3 years
- **Interface and user manual language:** English



Standard Complete Set :

- Accompanying documents
- Main instrument MIKO-8M or MIKO-8MA
- Mains cable
- Ground cable
- Zero resistance standard to check accuracy of instrument
- Shunt 75 ShSM M3, 75-0.5 to test the instrument's operability
- Fuses VP2B-1V-2A (2 pcs)
- Attachment devices set kit bag

When Placing The Order, You Should Choose At Least One Test Cable From Optional Complete Set Of The Instrument

- 10A Kelvin Clamp test cable 1 x 8.5 m (jaw up to 80 mm)
- 10A Kelvin C-clamp test cable 1 x 8.5 m (jaw up to 103 mm)
- 10A Kelvin test cable 1 x 3 m with two probes and four crocodile clips (jaw up to 25 mm). Separate current and potential wires terminated with "banana" plugs.
- 10A Kelvin Clamp test cable 1 x 4 m (jaw up to 25 mm).

*** Optional accessories on request**



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.





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