

**TECHNOLOGY
PRODUCTS**



MIKO 7M(A)



SKBEP

DIAGNOSTIC INSTRUMENTS
FOR HIGH-VOLTAGE EQUIPMENT



Miko 7M(A)



- Measures DC resistance from $1\ \mu\Omega$ to $2\ \text{k}\Omega$.
- AUTO and MANUAL modes for inductive and resistive circuits.
- Built-in memory for up to 200 measurements.
- High protection from cable breakdown and EMF interference.
- MIKO-7MA version includes a built-in battery for portable use.

The instrument is designed to measure DC resistance in inductive and non-inductive circuits of $1\ \mu\Omega$ - $2\ \text{k}\Omega$ including:

- windings of power and instrument transformers, electric motors, generators, linear compensators and, other high inductance equipment;
- contacts of circuit breakers, resistors, busbars, and other non-inductive circuits;
- compensatory, current limiting, and other HV circuit breaker resistors;
- cables.



MIKO-7M(A) features specialized measurement modes for different configurations of 5 objects, taking into account their specific features, while the user can choose a standard object.

Availability of this function enables systematization of measurement results, and ensures comfortable work with the measurement results.

The instrument has a high level of protection from test cable or mains cable breakdown, EMF of self-induction, and overheat of the test block.

Meets the safety requirements of EN 61010-1 and the electromagnetic compatibility requirements of EN 61326-1 to Class A equipment.

Depending on the type of object, user can select special measurement modes. For example, for a resistive object:

- **AUTO**: measurement starts automatically when the measurement circuit is closed.
- **SINGLE**: the measurement starts by user command via the START button.
- For an inductive object, the user can also select one of two modes:
- **MANUAL**: measurement process is started and stopped manually by pressing the START button.
- **AUTO**: measurement process is started by pressing the START button, and will stop automatically when specified criterion is reached.

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

In addition, the use of this mode for the measurement process enables the device to give the highest possible test current which ensures guaranteed saturation of the transformer magnetic system.

The instrument is provided in two versions. The point of difference between the MIKO-7MA and the MIKO-7M is a built-in battery (MIKO-7MA).



General Features

- **Measurement range:** $1\ \mu\Omega$ - $2\ \text{k}\Omega$
- **Resolution:** $0.1\ \mu\Omega$
- **Accuracy:** $\pm(0.1\% + 0.5\ \mu\Omega)$
- **Test current output:** 0.01 - $10\ \text{A}$
- **Measurement display resolution:** 5 digits
- **Power supply of MIKO-7MA (built-in battery):** Lithium-ion battery
- **Battery charge time of MIKO-7MA:** 3h
- **Battery runtime of MIKO-7MA (in continuous operation):** 8 h
- **Built-in memory:** to 200 measurements
- **PC connection:** USB, Bluetooth
- **Display:** Monochrome graphic 128×64 pixels
- **Power consumption:** $120\ \text{W}$
- **Output:** $60\ \text{W}$
- **Power supply (mains voltage):** ~ 90 - $253\ \text{V}$, 47 - $63\ \text{Hz}$ = 127 - $354\ \text{V}$
- **Dimensions:** $270 \times 250 \times 130\ \text{mm}$
- **Weight of MIKO-7M/MIKO-7MA:** $2.7\ \text{kg}$ / $4.0\ \text{kg}$
- **Environmental protection:** IP 67 (instrument cover closed) IP 40 (instrument cover open)
- **Operating temperature range:** from -20°C to $+55^\circ\text{C}$
- **Warranty period:** 3 years
- **Recommended calibration interval:** 3 years
- **Interface and user manual language:** English



Standard Complete Set :

- Accompanying documents
- Main instrument MIKO-7M or MIKO-7MA
- 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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