

Micro-ohmmeter MIKO-22 new development

Note: To check the technical condition of the high-voltage circuit breaker's contacts and monitor the condition of the main and arcing contacts without disassembly using the DCRM method, the MIKO-22 must be equipped with one of the following displacement transducers: the linear DP12 or the angular DP21, a measuring stick (if the DP12 transducer is selected), and a transducer cable from the additional complete set for DCRM mode (on order).

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Standard complete set:

Item	Photo	Application
Main instrument MIKO-22 040.00.00.000		Instrument and additional documents: Calibration Certificate, User Manual, Log Book.
Test cable 039.27.00.000		200 A Kelvin clamp test cables 2 x 2 m (1.12 kg) with jaw up to 50 mm. Include a current wire and a potential wire.
Ground cable 010.01.00.000		Ground cable 1 x 2 m (0.07 kg) for instrument grounding. The cable is equipped with a C-clamp and a screw end cap. Rated current is 50 A.
Mains battery charger		Mains adapter for charging the built-in battery.
USB Type-A, USB Type-C Cables		For computer connection and data transfer.
Tool bag 126.06.00.000		Convenient, robust, wear proof bag for transportation of cables, documentation and other accessories.

Test cables (on order):

Item	Photo	Application
Set No. 1 039.19.00.000		200 A Test cables 2 x 1.5 m (0.87 kg) with spring-loaded spike contacts. Include a current wire and a potential wire. Convenient for measurements in busbars and arc extinguish chambers.
Set No. 2 039.35.00.000		200 A Kelvin clamp test cables 2 x 10 m (7.32 kg) with jaw up to 50 mm. Include a current wire and a potential wire.
Set No. 3 039.25.00.000		200 A Kelvin C-clamp test cables 2 x 4.5 m (3.79 kg) with jaw up to 80 mm. Include a current wire and a potential wire.
Set No. 4 039.26.00.000		200 A Kelvin C-clamp test cables 2 x 6 m (5.12 kg) with jaw up to 80 mm. Include a current wire and a potential wire.
Set No. 4 039.38.00.000		200 A Kelvin C-clamp test cables 2 x 10 m (16 kg) with jaw up to 80 mm. Include a current wire and a potential wire.
Test cable for sets No. 2, No. 3, No. 4 39.24.00.000 39.24.00.000-01 39.24.00.000-02		Test cables for precision measurements and measurements on circuit sections where a test current is applied to the end points. The set includes: A25C Kelvin clamp (2 pcs.) and test probes (2 pcs.). For Set No. 2 – 2 m (039.24.00.000) (0.068 kg). For Set No. 3 – 4.5 m (039.24.00.000-01) (0.151 kg). For Set No. 4 – 6 m (039.24.00.000-02) (0.201 kg). The cable can be used for specific resistance measurements of cables.
Set No. 5 039.20.00.000 039.21.00.000-01 039.21.00.000-02		200 A Kelvin clamp test cable 1 m (0.5 kg) with jaw up to 50 mm. Includes a current wire and a potential wire. Kelvin C-clamp test cable with jaw up to 80 mm. Includes a current wire and a potential wire. The following lengths are available: 3 m (039.21.00.000) (1.34 kg). 6 m (039.21.00.000-01) (2.0 kg). 9 m (039.21.00.000-02) (4.0 kg).
Potential spring-loaded contact 023.21.00.000 023.21.00.000-01		To be used together with test cables to eliminate high contact resistance between the input stud and the terminal. Applicable with Sets No. 2 - No. 5.
Potential pin contact 023.22.00.000 023.22.00.000-01		To be used together with test cables to eliminate high contact resistance between the input stud and the terminal. Applicable with Sets No. 2 - No. 5.

Test cable 039.37.00.000		200 A Kelvin C-clamp test cables 2 x 15 m (30.68 kg) with jaw up to 80 mm. The cable clamp has a socket for connecting a remote potential contact.
Test set 039.43.00.000		200 A Kelvin clamp test cables 2 x 10 m (7.9 kg) with jaw up to 70 mm.
Test cable. 039.44.00.000		200 A Kelvin clamp test cables 2 x 13 m (16.53 kg) with jaw up to 70 mm.

Additional complete set for DCRM mode (on order):

Item	Photo	Application
Angular displacement transducer DP21 009.00.00.000		For measuring the angle of shaft turn in high-voltage circuit breakers. Measuring range: 0.2 – 360°. Resolution: 0.09°.
Linear displacement transducer DP12 012.00.00.000		For displacement measurement of moving parts in high-voltage circuit breakers. Range: 1 – 900 mm. Resolution: 0.5 mm. To be used together with a measuring stick.
Measuring stick 012.03.00.00 012.03.00.00-01 012.03.00.000-02		Measuring stick in a case. To be used together with linear displacement transducer DP12 (length on order – 550 mm, 700 mm and 1,000 mm).
Transducer cable 053.08.00.000		For connecting linear (DP12) or angular (DP21) displacement transducer to the instrument. Silicone cable insulation. Length: 5 m.
Attachment devices set		For attaching of DP12 and DP21 transducers to SF6 circuit breakers manufactured by Siemens, ABB, Areva, etc.
Drive control cable 040.19.00.000		Cable 1 m (0.3 kg) for transmitting start commands and controlling switching.

Test cables for aviation diagnostics (on order):

Item	Photo	Application
Test set 039.33.00.000 039.33.00.000-01		100 A Kelvin double hand spike test cable 2 x 1.5 m (0.471 kg) with spring-loaded contacts with jaw up to 20 mm. One probe is equipped with a control button for measurement start-up. Recommended for contact resistance measurement in hard-to-reach places of objects with painted surfaces; in aviation: for contact resistance measurement of aircraft equipment and helicopter fuselage.
Test set 039.31.00.000 039.31.00.000-01		50 A Kelvin test cable with crocodile clips 2 x 1.5 m with jaw up to 20 mm. Recommended for resistance measurements in hard-to-reach places; in aviation: for resistance measurement of various elements of the aircraft.

Additional complete set (on order):

Item	Photo	Application
Current clamp extension cable 047.17.00.000		To extend the length of the current clamp cable. Length: 5 m.
BNC connection cable		Designed to connect the device to a reference voltage source during testing and calibration.
Battery unit 055.04.00.000		Battery unit for the device's autonomous operation. 7800 mAh. Set includes 1 pc.
Shunt SV75-0075A-D-02 060.02.18.000		For checking the operability of the device. Manufactured by SKB EP.
Adapter for a reference coil		For testing laboratories: inspection / calibration of the instrument, 2 x 0.025 m + 0.16 m (0.04 kg).
Tool bag No. 2 126.06.02.000		Attachment devices set kit

Recommended accessories (on order):

Item	Photo	Application
Manipulating rod 010.41.00.000 010.41.00.000-01 010.41.00.000-02		Manipulating rod is designed for test cables connection from the ground or from the tank cover to the bushings of high-voltage circuit breakers, and to the structural elements of high-voltage disconnecting switches and earthing devices, without the use of ladders or elevated platforms. The manipulating rod is completed with special extension cables 3.3 m. There is a Kelvin clamp with current and potential contacts to connect to the object on one side, and a contact pad on the other side. The device test cable is connected to the contact pad from the ground or a tank cover. Manipulating rod extension cable is made according to a four-wire (Kelvin) scheme with the test current capacity of 100 A in the presence of a good contact. Manipulating rod - 2.2 (length 2.2 m / weight as an assembled set 3.4 kg); Manipulating rod - 3.7 (length 3.7 m / weight as an assembled set 4.0 kg); Manipulating rod - 5.1 (length 5.1 m / weight as an assembled set 4.6 kg).
Extension cable set (2 pcs.) 010.41.08.000		An additional extension cable set for the manipulating rod's standard complete set, designed for simultaneous connection to 4 high-voltage object bushings . Weight: 1.72 kg
Extension cable set (4 pcs.) 010.41.08.000		An additional extension cable set for the manipulating rod's standard complete set, designed for simultaneous connection to 6 high-voltage object bushings . Weight: 3.44 kg