

# MANIPULATING ROD

## ADDITIONAL EQUIPMENT



See full description, reviews, insights and optional complete set for the instrument on the website



Manipulating rod is an auxiliary equipment for connecting the test cable clamps of various measuring instruments to the bushings of de-energized high-voltage equipment to a height of 5 m from the ground or a tank cover, without the use of ladders or an elevated work platform. Application objects:

- High-voltage circuit breakers of different types;
- Disconnecting, isolating, and short-circuiting switches;
- High-voltage busbars;
- Power transformers, autotransformers, electric reactors.

Device is recommended for use together with all SKB EP groups of instruments as well as with the instruments of other manufacturers.



Manipulating rod does not require calibration or verification. Maintenance means periodic inspection of the product on a subject of elements damage to make a decision on replacement or on-site repair. Manipulating rod does not require certification. Instructions on safe operation with the manipulating rod are indicated in the equipment specification.

x3

Available in three sizes (lengths), which cover the application height on the electrical installations up to 220 kV. User only needs to choose the length.



## GENERAL FEATURES

### MANIPULATING ROD:

Length of manipulating rod, at user's choice	2.2 m	3.7 m	5.1 m
Weight of the device as assembled set	3.4 kg	4.0 kg	4.6 kg

### EXTENSION CABLE:

Extension cable length	3.3 m
Kelvin clamp jaw	80 mm
Rotation angle of the crocodile type clamps horizontally	±90°
Rotation angle of the crocodile type clamps vertically	0°, 45°, 90°

Operating temperature range	from -15°C to +45°C
Warranty period	6 months
User manual language	English



The manipulating rod is recommended to be used together with **MIKO-1** and **MIKO-21** micro-ohmmeters, as well as with **MIKO-2.3** multipurpose low / high resistance meter 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, earthing devices, and other equipment for contact resistance measurement.



If specialists use or plan to use milli-ohmmeters **MIKO-7M(A)**, **MIKO-8M(A)**, or **MIKO-9A**, manipulating rod shall be an essential accessory for connecting instrument test cables from the tank cover of power transformers up to 220 kV to high-voltage winding elements without the use of ladders or elevated platforms.



Together with circuit breaker analyzers **PKV/M7**, **PKV/U3** and **PKV/M17** the manipulating rod is aimed for convenient pole cables connection to the circuit breaker bushings from the ground or a tank cover to measure their technical parameters.



When working with power transformer OLTC diagnostic systems **PKR-2** or **PKR-2M** specialists may use manipulating rod for connecting test cables from the tank cover of power transformer up to 220 kV without the use of ladders or elevated platforms.

## STANDARD COMPLETE SET:

- User manual
- Manipulating rod
- Extension cable (2 pcs)
- Ground cable
- Clamp limiter for bushings of small diameter (2 pcs)
- Cover and bag for transporting the device and accessories

\* **Optional accessories on request**