MOM200A
Microhmmeter

- **Compact and rugged**
- **Easy-to-use**
- **200 A output current**

Description

The MOM200A™ is designed to check and measure contact resistances in high-voltage circuit breakers, disconnecting switches (isolators) and busbar joints. The instrumen is an excellent choice when 200 amperes or less are needed for measurement.

Since the MOM200A weighs only about 14 kg (31 lbs), it's convenient to take along with you.

MOM200A is ideal for finding poor connections since it can put out 100 A for extended periods. Its range extending up to 20 milliohms makes it ideal for measuring many different types of connections.

A complete MOM200A includes a cable set (including separate sensing cables) and a transport case.

Application examples

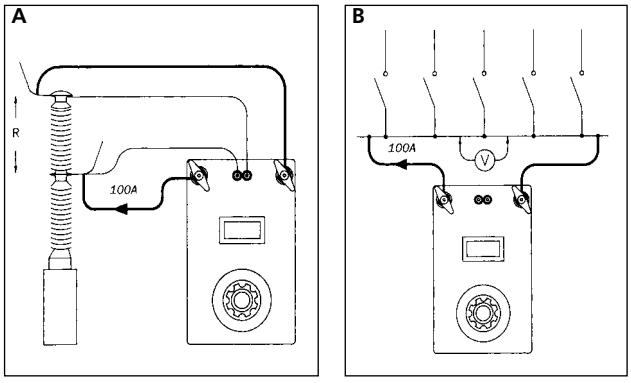
IMPORTANT!
Read the User's manual before using the instrument.

A. Measuring the resistance of a circuit breaker element

1. Connect the microhmmeter to the circuit breaker.
2. Set the current (100 A in this example).
3. Press the resistance pushbutton.
4. Read the result.

B. Measuring the resistance of busbar joints

1. Connect the microhmmeter's current cables to the object being tested. Do not connect the sensing cables since measurements will be taken using an external movable voltmeter.
2. Set the current (100 A in this example).
3. Connect an external voltmeter to the bus.
4. Read the voltmeter (0.1 mV = 1 μΩ in this example).
5. Move the voltmeter to the next joint.
6. Repeat step 4.



Specifications MOM200A

Specifications are valid at nominal input voltage and an ambient temperature of +25°C, (77°F). Specifications are subject to change without notice.

Environment

Application field	The instrument is intended for use in high-voltage substations and industrial environments.
Temperature	
Operating	0°C to +50°C (32°F to +122°F)
Storage & transport	-40°C to +70°C (-40°F to +158°F)
Humidity	5% – 95% RH, non-condensing

CE-marking

EMC	2004/108/EC
LVD	2006/95/EC

General

Mains voltage	115/230 V AC, 50/60 Hz
Power consumption	1610 VA (max)
Protection	Miniature circuit breakers, thermal cut-outs
Dimensions	
Instrument	280 x 178 x 246 mm (11" x 7" x 9.7")
Transport case	560 x 260 x 360 mm (22" x 10.2" x 14.2")
Weight	14.6 kg (32.2 lbs) 26 kg (54.1 lbs) with accessories and transport case
Current cables	2 x 5 m (16 ft), 25 mm²
Sensing cables	2 x 5 m (16 ft), 2.5 mm²

Measurement section

Resistance

Range	0 – 1999 µΩ 0 – 19.99 mΩ
Resolution	1 µΩ 10 µΩ
Inaccuracy	±1% of reading + 1 digit

Output

Current	0 – 200 A DC
Open circuit voltage	4.7 V DC
Current shunt output	10 mV/100 A ±0.5%, max 20 mV out, max 10 V to protective earth (ground)

Max. load capacity

Current adjustment set to 100%

Output current	Min. output voltage	Max. load time	Rest time
100 A DC	3.8 V DC	5 min. 15 min.	15 min. 60 min.
200 A DC	3.0 V DC	20 s	5 min.

Cable set GA-02053, GA-00200 and shunt BD-90022.

Ordering information

Item	Art. No.
MOM200A Complete with: Cable set GA-02053 Ground cable GA-00200 Transport case GD-00010	
115 V Mains voltage	BD-11190
230 V Mains voltage	BD-12290
Optional	
Cable set 10 m 2 x 10 m (33 ft), 35 mm² (current cables). 2 x 10 m (33 ft), 2.5 mm² (sensing cables) Weight: 9 kg (19.8 lbs)	GA-03103
Cable set 15 m 2 x 15 m (49 ft), 50 mm² (current cables). 2 x 15 m (49 ft), 2.5 mm² (sensing cables) Weight: 18.6 kg (40.9 lbs	GA-05153
Calibration shunt 200 A/20 mV	BD-90022

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