MOM200A™

Microhmmeter

Programma® Products

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Microhmmeter

Like the MOM690™ and MOM600A™, this model is designed to check and measure contact resistances in highvoltage circuit breakers, disconnecting switches (isolators) and busbar joints. The MOM200A™ 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.

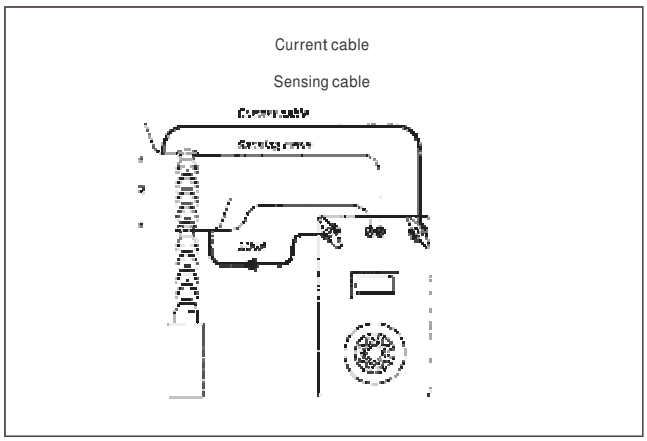
Application example

IMPORTANT!

Read the User's manual before using the instrument.

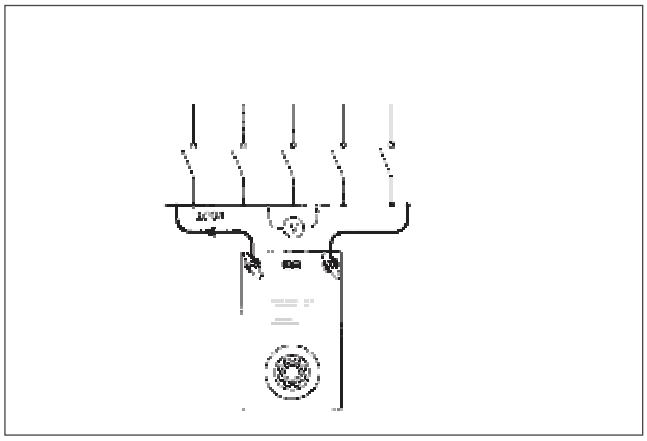
Measuring the resistance of a breaker element

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.



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 µ⩓ in this example).
5. Move the voltmeter to the next joint.
6. Repeat step 4.



Optional accessories

Cable set 10 m (33 ft)

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)

Cable set 15 m (49 ft)

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)

Calibration shunt

200 A/20 mV

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.

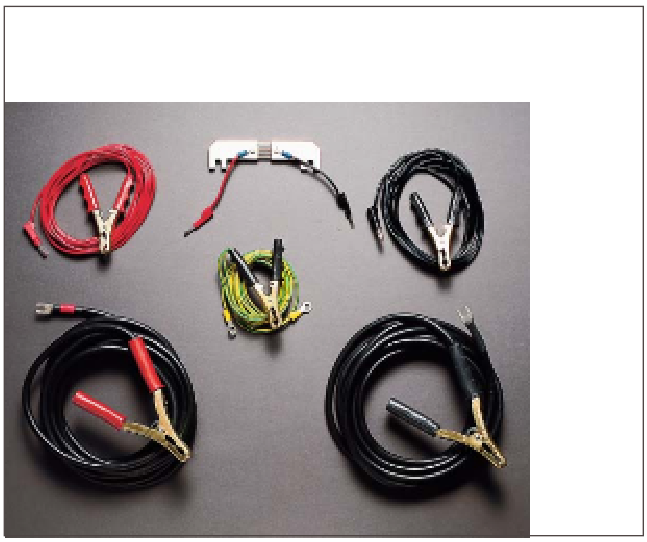
Environment	
Application field	The instrument is intended for use in high-voltage substations and industrial environments.
Temperature	
Operating	0°C to +50°C (32°F to +122°F)
Storage & transport	-40°C to +70°C (-40°F to +158°F)
Humidity	5% – 95% RH, non-condensing
CE-marking	
LVD	Low Voltage Directive 73/23/ EEC am. by 93/68/EEC
EMC	EMC Directive 89/336/EEC am. by 91/263/EEC, 92/31/EEC and 93/68/EEC
General	
Mains voltage	115 / 230 V AC, 50 / 60 Hz
Power consumption (max)	1610 VA
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
Display	LCD
Measurement section	
Resistance	
Range	0 – 1999 mΩ 0 – 0-19.99 mΩ
Resolution	1 mΩ 10 mΩ
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***	***Input current at 115 / 230 V AC***
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.	14 A / 7 A



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

Ordering information

MOM200A	Art.No.
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-11190**

Optional accessories

Cable set 10 m	**GA-03103**
Cable set 15 m	**GA-05153**
Calibration shunt, 200 A/20 mV	**BD-90022**

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