



# MOM200A<sup>TM</sup>

**Microhm meter**  
Programma® Products

# MOM200A™



## Microhm meter

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.

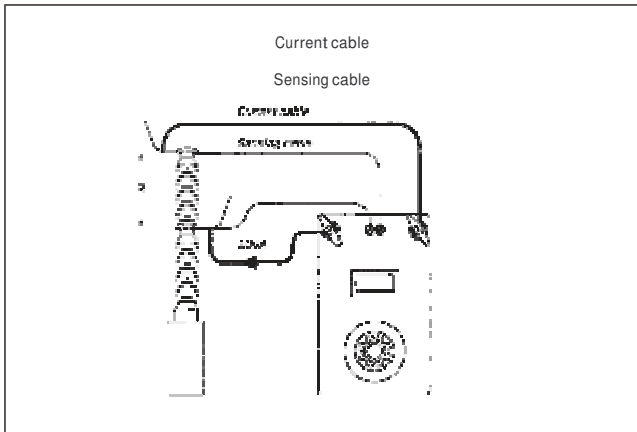
## Application example

### 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.



## Optional accessories

### Cable set 10 m (33 ft)

2 x 10 m (33 ft), 35 mm<sup>2</sup> (current cables).

2 x 10 m (33 ft), 2.5 mm<sup>2</sup> (sensing cables)

Weight: 9 kg (19.8 lbs)

### Cable set 15 m (49 ft)

2 x 15 m (49 ft), 50 mm<sup>2</sup> (current cables).

2 x 15 m (49 ft), 2.5 mm<sup>2</sup> (sensing cables)

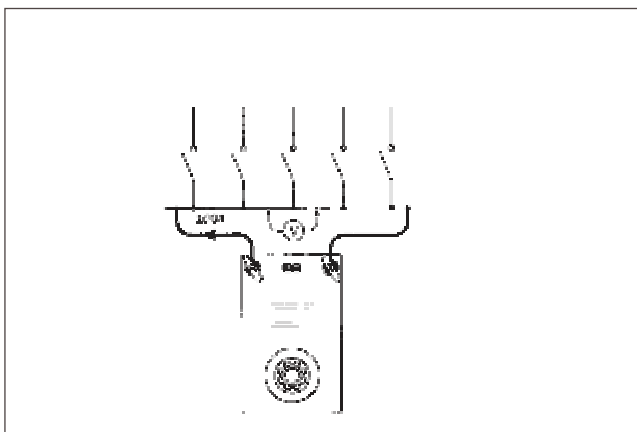
Weight: 18.6 kg (40.9 lbs)

### Calibration shunt

200 A/20 mV

#### 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  $\mu\Lambda$  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

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

### CE-marking

<i>LVD</i>	Low Voltage Directive 73/23/EEC am. by 93/68/EEC
<i>EMC</i>	EMC Directive 89/336/EEC am. by 91/263/EEC, 92/31/EEC and 93/68/EEC

### General

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

### Measurement section

#### Resistance

<i>Range</i>	0 – 1999 mΩ 0 – 0-19.99 mΩ
<i>Resolution</i>	1 mΩ 10 mΩ
<i>Inaccuracy</i>	±1% of reading + 1 digit

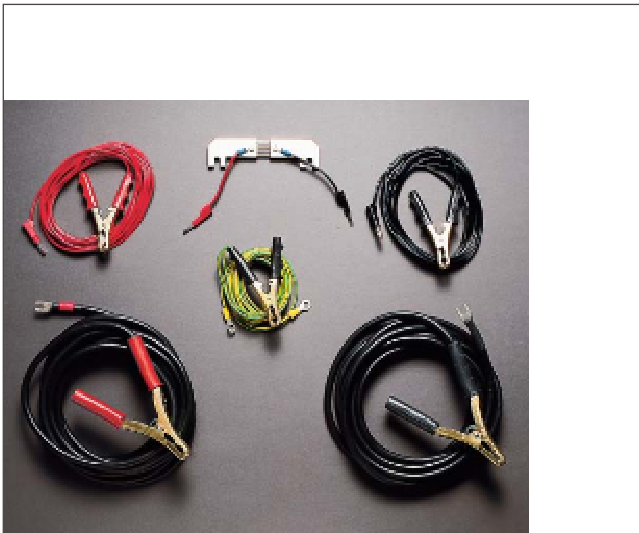
### Output

<i>Current</i>	0 – 200 A DC
<i>Open circuit voltage</i>	4.7 V DC
<i>Current shunt output</i>	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%

<i>Output current</i>	<i>Min. output voltage</i>	<i>Max. load time</i>	<i>Rest time</i>	<i>Input current at 115/230 V AC</i>
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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