

# MOM200A

## Micro-ohmmeter



- **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 instrument 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.

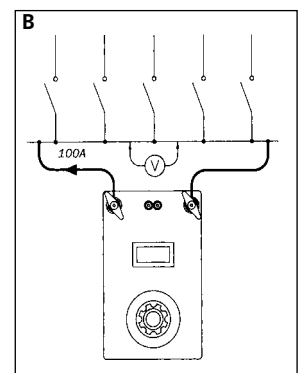
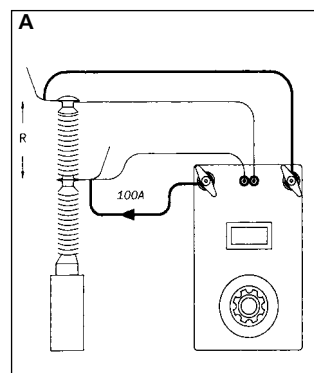
### APPLICATION EXAMPLES

#### A. Measuring the resistance of a circuit breaker element

1. Connect the micro-ohmmeter 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 micro-ohmmeter'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 ( $0.1 \text{ mV} = 1 \mu\Omega$  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 mm<sup>2</sup>

*Sensing cables* 2 x 5 m (16 ft), 2.5 mm<sup>2</sup>

**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 (two current cables and two sensing cables)



Ground cable GA-00200



Optional accessory:  
Calibration shunt BD-90022

**ORDERING INFORMATION**

Item	Art. No.
<b>MOM200A</b> Incl. Cable set GA-02053, Ground cable GA-00200, Transport case GD-00010	
<b>115 V Mains voltage</b>	BD-11190
<b>230 V Mains voltage</b>	BD-12390
<b>Optional accessories</b>	
<b>Cable set 10 m</b> 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)	GA-03103
<b>Cable set 15 m</b> 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)	GA-05153
<b>Calibration shunt</b> 200 A/20 mV	BD-90022