## MOM600A Micro-ohmmeter





- Compact and rugged
- Easy-to-use
- 600 A output current

#### DESCRIPTION

Switchgear breakdowns are frequently caused by excessively high contact resistance at breakpoints and busbar joints. Moreover, overheating risks are becoming more serious due to the fact that today's distribution networks have to carry heavier loads. Checking contact resistances at regular intervals detects faults before they cause overheating. And here, an ounce of prevention is worth a pound of cure.

Micro-ohmmeters are used to measure contact resistances in high-voltage breakers, disconnecting switches (isolators), knifecontact fuses, bus joints, line joints etc.

The MOM600A<sup>™</sup> is in a class apart on world markets. Designed for use from the arctic to the tropics, this rugged, compact micro-ohmmeter is ideal for field work.

A complete set of equipment includes a set of highly flexible cables (including separate measurement cables) and a sturdy transport case.

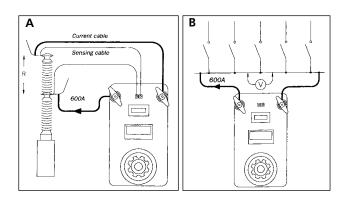
#### **APPLICATION EXAMPLES**

# 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 mV = 1  $\mu\Omega$  in this example).
- **5.** Move the voltmeter to the next joint.
- **6.** Repeat step 4.



#### **SPECIFICATIONS**

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** 

Temperature

Operating 115 V Operating 230 V Storage & transport Humidity

#### **CE-marking**

EMC LVD RoHS

#### General

Mains voltage **Power consumption** (max) Protection

### Dimensions

Instrument Transport case

Weight, 115 V model

Weight, 230 V model

**Current cables** Sensing cables

#### **Measurement section**

**Resistance range** Resolution Inaccuracy

**Output, 115 V model** 

Current Open circuit voltage **Current shunt output**  0 – 600 A DC 5.2 V DC 10 mV/100 A ±0.5%, max 60 mV out, max 10 V to protective earth (ground)

#### Output, 230 V model

Current 0-600 A DC Open circuit voltage 9 V DC **Current shunt output** 10 mV/100 A ±0.5%, max 60 mV out, max 10 V to protective earth (ground)

#### Load capacity, 115 V model

Current adjustment set to 100%						
	Min. out- put volt- age	Max. load time	Rest time	Input cur- rent		
100 A DC	4.6 V	-	-	8 A		
300 A DC	3.8 V	1.5 min.	15 min.	20 A		
600 A DC	2.6 V	10 s	5 min.	38 A		

#### **Postal address**

Megger Sweden AB Box 724 SE-182 17 Danderyd SWEDEN

T +46 8 510 195 00 E seinfo@megger.com The instrument is intended for use in high-voltage substations and industrial environments.

0°C to +50°C (32°F to +122°F) 0°C to +40°C (32°F to +104°F) -40°C to +70°C (-40°F to +158°F) 5% – 95% RH, non-condensing

2014/30/EU 2014/35/EU 2011/65/EU

115/230 V AC, 50/60 Hz 115 V, 4370 VA 230 V, 7360 VA Miniature circuit breakers, thermal cut-outs

356x203x241 mm (14" x8" x9,5") 610x290x360mm (24.0" x 11.4" x 14.2") 25 kg (55.1 lbs) 43.1 kg (95 lbs) with accessories and transport case 24.7 kg (54.5 lbs), 42.8 kg (94.4 lbs) with accessories and transport case 2 x 5 m (16 ft), 50 mm<sup>2</sup> 2 x 5 m (16 ft), 2.5 mm<sup>2</sup>

0 – 1999 μΩ 1μΩ ±1% of reading + 1 digit (at 100 - 600 A test current)

Load capacity, 230 V model

Current adjustment set to 100%					
	Min. out- put volt-	Max. load	Rest time	Input cur- rent	
	age	time			
100 A DC	8.3 V	-	-	6 A	
300 A DC	7.2 V	2.5 min.	15 min.	16 A	
600 A DC	5.6 V	15 s	5 min.	32 A	



Cable set GA-05053 (2 current cables and 2 sensing cables)





Ground cable GA-00200

Optional accessory: Calibration shunt BB-90020

It <u>em</u>	Part. No.
MOM600A	
Complete with: Cable set GA-05053,	
2 x 5 m (16 ft), 50mm <sup>2</sup> (current cables)	
2 x 5 m (16 ft), 2.5 mm <sup>2</sup> (sensing cables)	
Ground cable GA-00200	
Transport case GD-00182	
115 V Mains voltage	BB-11190
230 V Mains voltage	BB-12290
Optional accessories	
Cable set 10 m	
2 x 10 m (33 ft), 70 mm <sup>2</sup> (current cables) 2 x 10 m (33	
ft), 2.5 mm <sup>2</sup> (sensing cables)Weight: 16.8 kg (37 lbs)	GA-07103
Cable set 15 m	
2 x 15 m (49 ft), 95 mm <sup>2</sup> (current cables). 2 x 15 m (49	
ft), 2.5 mm <sup>2</sup> (sensing cables )Weight: 29.4 kg (65 lbs)	GA-09153
Calibration shunt	
600 A/60 mV	BB-90020

**ORDERING INFORMATION** 

ISO 9001:2008 The word "Megger" is registered trademark www.megger.com

Art. No. ZI-BB05E = BB0375FE = 2023

Subject to change without notice.

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