

200 A digital micro-ohmmeter

MPK215R

Micro-ohmmeter with optimized filters and protections for measurements in electrical substations and a cooling system that allows making a large number of consecutive tests. Safer measurements with BSG test mode.



Illustrative Photo. Smartphone not included.

Features

- Direct reading (up to 4½ digits)
- BSG mode (Both Side Grounded)
- Resolution: 0.1 $\mu\Omega$
- Resistance reading: up to 1 Ω
- U/I (4-wires) measurement
- Overheating protection
- Built-in memory
- Bluetooth and USB communication interfaces
- Open Modbus protocol: Can be remote controlled through an Android app or through USB by customized software, labview and PLC

Description

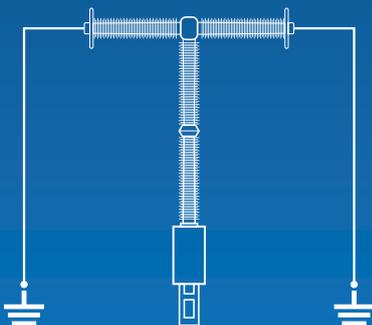
The **MPK215R** high-current micro-ohmmeter is a portable digital instrument. Has optimized filters and protections for measurements in electrical substations. Can be used to accurately measure very low contact resistances of high voltage circuit-breakers and switches, busbars, etc. It employs the 4 terminals-method (U/I measuring principle) to avoid errors caused by test leads and their contact resistances.

The **MPK215R** has a cooling system that allows making a large number of consecutive tests without activation of thermal protection. Under normal ambient conditions (25 °C) it can perform up to 30 consecutive tests with duration of 1 minute and 1 minute interval, time usually spent for repositioning the cables in another test point.

Measurement accuracy is guaranteed by a state-of-the-arts signal amplification system, offset-free and of high long-term stability. This is a strong but lightweight equipment and may be easily carried by one person. It is water-resistant and can be used under severe weather conditions (IP54 with closed lid) offering an excellent performance working both in the laboratory and out in the field.

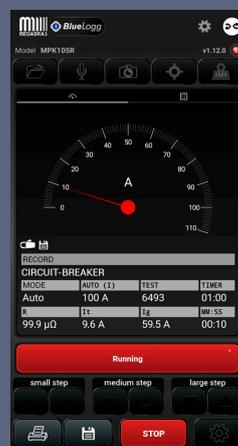
BSG mode

The **BSG** (Both Side Grounded) test mode provides to the user and to the equipment a safer way to test objects in a substation since the both sides of a switch, contact or circuit breaker is maintained connected to the ground during the whole test.



BlueLogg

This instrument has Bluetooth® interface and can be controlled remotely via an Android™ smartphone / tablet running the BlueLogg application.



Increased safety and comfort

Set up, start and stop tests in an even safer and more comfortable way

Automatic reports

Generate test reports directly on the App

Smartphone / tablet features

Incorporate smartphone features into your reports (photo, GPS coordinates and test location map)



- Using the remote control does not require a cell phone or Internet connection (the Internet is only necessary if you want to see a map of the test site or send reports by email)
- Android, Google Play and the Google Play logo are trademarks of Google LLC
- Bluetooth is a registered trademark of the Bluetooth SIG, Inc. Worldwide

Technical specifications

ELECTRICAL	
Test current	From 5 A up to 200 A (True DC) The test current can be adjusted in: • Steps of 0.2 A from 5 A to 20 A • Steps of 1 A from 20 A to 200 A
Resistance ranges	0.1 $\mu\Omega$ up to 2 m Ω (0.1 $\mu\Omega$ resolution) 2 m Ω up to 200 m Ω (10 $\mu\Omega$ resolution) 200 m Ω up to 1 Ω (1 m Ω resolution)
Basic accuracy	$\pm 1\%$ of reading from 50 $\mu\Omega$ to 1 Ω
AUXILIARY CLAMP (BSG)	
Measurement range	0.1 Adc to 60 Adc
Accuracy	1% + 3 digits
FEATURES	
Measuring modes	Manual and automatic
BSG function	Allows to test an object with both sides grounded, providing more safety when performing measurements at substations
Timer function	Allows to setup the test duration from 15 seconds up to 120 seconds for current test from 5 A up to 200 A. Allows unlimited test duration for currents equal or lower than 100 A.
Measurement principle	Four-terminal, U/I
Protections	Against overheating, over-current and short-circuit
Display	Alphanumerical LCD display, 4 lines / 20 characters (Big Number)
Built-in memory	Memory for storing up to 4000 readings organized by records

STANDARDS	
Safety	IEC 61010-1
COMMUNICATION	
Protocol	Modbus
USB	For configuration, control and download the stored values
Bluetooth	For configuration, control and download the stored values
SOFTWARE	
Desktop (PC/Notebook)	Megalogg2 software: to transfer stored data in the equipment's memory, analyze it and generate test reports
Android (Smartphone/ Tablet)	BlueLogg app: for remote control, allowing to configure, run tests and generate reports
ENVIRONMENTAL	
IP rating	IP54 (with closed lid)
Operating temperature	0 °C to 50 °C
Storage temperature	-10 °C to 70 °C
Humidity	95 % RH (non condensing)
POWER SUPPLY	
Mains	100 - 240 V~
MECHANICAL (EQUIPMENT)	
Weight	Approx. 11 kg
Dimensions	502 x 394 x 190 mm



Included accessories

- 2 combined current and potential leads
- Auxiliary current clamp
- Ground cable
- Power cord
- USB cable
- User guide
- Megalogg2 software
- BlueLogg app
- Case for the accessories

Remote control by App

application for
Android™



BlueLogg

Full control at your hand

Have full control of your MEGABRAS micro-ohmmeter through the BlueLogg app. Set the parameters, start / stop a test, save the data and generate reports.

- Test details
- Real-time measurement
- Start / Stop a test



Increased safety

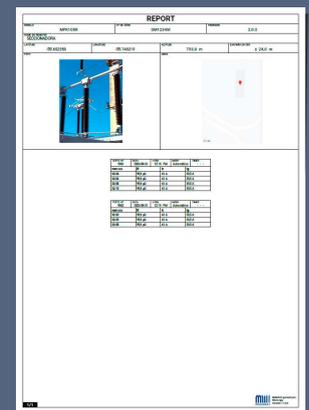
BlueLogg communicates with the micro-ohmmeter through a Bluetooth® connection, allowing control of the tests at a distance, further increasing user safety in high-current testing.



Smartphone features and automatic reports

Record voice annotation for each measurement, generate automatic test reports directly on the App. Incorporate smartphone / tablet features into the report (photo, GPS coordinates and test location map).

- Voice annotation
- Photos
- GPS coordinates
- Map



Using the remote control does not require a cell phone or Internet connection (the Internet is only necessary if you want to see a map of the test site or send reports by email)



• Android, Google Play and the Google Play logo are trademarks of Google LLC
• Bluetooth is a registered trademark of the Bluetooth SIG, Inc. Worldwide

