

# MPK215e



## PORTABLE DIGITAL MICRO-OHMMETER UP TO 200A

- ✓ **PERFORM UP TO 30  
CONSECUTIVE TESTS**
- ✓ **ALPHANUMERICAL  
DISPLAY**
- ✓ **DIRECT READING (UP TO  
4½ DIGITS)**
- ✓ **RESOLUTION: 0.1μΩ**
- ✓ **RESISTANCE READING:  
UP TO 1Ω**
- ✓ **U/I (4-WIRES)  
MEASUREMENT**
- ✓ **OVERHEATING  
PROTECTION**
- ✓ **MEMORY FOR STORING  
50 RECORDS WITH 80  
READINGS EACH**

The **MPK-215e** high-current micro-ohmmeter is a portable, microprocessor-controlled 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., with test currents from **5A** up to **200A**. It employs the 4 terminals-method (U/I measuring principle) to avoid errors caused by test leads and their contact resistances.

The **MPK-215e** 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. Resistances readings are shown in the alphanumeric display with up to 4½ digits-resolution. It allows to measure resistances up to **1Ω**, and the best resolution is **0.1μΩ**.

It has an internal memory for storing 50 records with 80 readings each. The communication output (USB) may be connected to a computer to download the stored values.

The high-current generation system is based on modern technology that allows to significantly decrease both its weight (approx. 11kg) and size. The cabinet is made of plastic material highly resistant to impacts and to environmental challenges. Internal thermal sensors in all sensitive components avoid any damage caused to the instrument due to overheating.

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.

# MPH215e :: TECHNICAL SPECIFICATIONS

## TEST CURRENT

From 5A up to 200A (*True DC*).  
The test current can be adjusted in steps of 0.2 A from 5A to 20 A and steps of 1 A from 20 A to 200 A.

## RESISTANCE RANGES

0.1  $\mu\Omega$  up to 2 m $\Omega$  (0.1 $\mu\Omega$  resolution).  
2 m $\Omega$  up to 200 m $\Omega$  (10  $\mu\Omega$  resolution).  
200 m $\Omega$  up to 1  $\Omega$  (1 m $\Omega$  resolution).

## MEASUREMENT PRINCIPLE

Four-terminal, U/I.

## PROTECTIONS

Protections against overheating, overcurrent and short-circuit.

## PROGRAMMABLE TEST TIME

Allows to setup the test duration from 5 seconds up to 120 seconds.

## BASIC ACCURACY

$\pm 1$  % of reading.

## ADVANCED FEATURES

Digital direct reading of very low resistances in the alphanumerical display, with up to 4½ digits.  
Very fast and accurate measurements.

## BUILT-IN MEMORY

Memory for storing 50 records with 80 readings each.

## INTERFACE

USB.

## MEGALOGG2 SOFTWARE

Friendly, easy to use software. Tests are represented in tabular views. With automatic report generator, including the operator's commentaries.

## ENVIRONMENTAL PROTECTION

IP54 (with closed lid).

## SAFETY CLASS

Meets the requirements of IEC 61010-1.

## POWER SUPPLY

Mains: 100-240V~.

## OPERATING TEMPERATURE RANGE

-0°C to 50°C.

## STORAGE TEMPERATURE RANGE

-10°C to 65°C.

## HUMIDITY RANGE

95% RH (non condensing).

## EQUIPMENT WEIGHT

Approx. 11kg.

## DIMENSIONS

502 x 394 x 190mm.

## INCLUDED ACCESSORIES

- 2 Combined current and potential leads - up to 15m.
- 1 Power cord.
- 1 Ground cable.
- 1 USB cable.
- 1 Case for the accessories.
- 1 MegaLogg2 software.
- 1 User guide.

*Subject to technical change without notice. This catalogue is not a contractual document.*



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