

MPH 215_e



- Micro-ohmmeter up to 200 A
- Microprocessor controlled
- Alphanumerical display
- Direct reading (up to 4½ digits)
- Resolution: 0.1 $\mu\Omega$
- Resistance reading: up to 1 Ω
- U/I (4-wires) measurement
- Overheating protection
- Internal memory for up to 50 registers with 80 readings each

Description

The MPH-215e is a portable, microprocessor controlled instrument, used to accurately measure very low contact resistances of breakers and switches, busbars, transformers winding and engines, etc, with test currents from 5 A to 200 A. It employs the 4 terminals-method to avoid measurement errors caused by test leads and their contact resistances.

Resistances readings are shown in the alphanumeric display with up to 4½ digits-resolution.

It allows to measure resistances up to 1 Ω , with a resolution of up to 0.1 $\mu\Omega$.

Measurement accuracy is guaranteed by an state-of-the-arts signals amplification system, offset-free and of high long-term stability.

Test current may be adjusted by the operator in every one of the scales and their values are measured using an analog indicator (bargraph), making it easy to measure resistances with a significant inductive component, as in the case of big transformers windings.

The high-current generation system is based on modern technology that allows to significantly decrease both its weight 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 damaged 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 offering an excellent performance working both in the laboratory and out in the field.

MPH 215_e

Technical specifications

TEST CURRENT

5 A up to 200 A (True DC).

RESISTANCE RANGES

0.1 $\mu\Omega$ to 2 m Ω , with 0.1 $\mu\Omega$ resolution.

2 m Ω to 200 m Ω , with 10 $\mu\Omega$ resolution.

200 m Ω to 1 Ω , with 1 m Ω resolution.

MEASUREMENT PRINCIPLE

Four-terminal, U/I.

PROTECTIONS

Overcurrent, short-circuit and overheating.

PROGRAMMABLE TEST TIME

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

BASIC ACCURACY

$\pm 1\%$ of measured value.

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

Capacity to store 50 registers with 80 readings each.

INTERFACE

USB.

T-LOGGER SOFTWARE

Friendly, easy to use software. With automatic report generator, including the operator's commentaries.

ENVIRONMENTAL PROTECTION

IP65 (with closed lid).

SAFETY CLASS

Meets the requirements of IEC 61010-1.

POWER SUPPLY

Mains: 100-240 V~ 60 Hz.

OPERATING TEMPERATURE RANGE

23°F to 122°F (-5°C to 50°C).

STORAGE TEMPERATURE RANGE

-14°F to 140°F (-10°C to 60°C).

HUMIDITY RANGE

95 % RH (non condensing).

EQUIPMENT WEIGHT

Approx. 24.25 lb (11 kg).

DIMENSIONS

19.76" x 15.51" x 7.48" (502 x 394 x 190 mm).

ACCESSORIES WEIGHT

Approx. 45.19 lb (20.5 kg).

INCLUDED ACCESSORIES

2 Combined test leads (current and potential), clamp type

"C" (sargent) 19.6 ft (6 meters).

1 Ground cable.

1 Power cord.

1 USB cable.

1 Carrying case the test leads.

1 License to use the software T-Logger.

1 User guide.

OPTIONAL ACCESSORIES

Combined current and potential leads - up to 49.21 ft (15 meters).