MO-5889-200A

Portable digital micro-ohmmeter up to 200 A

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 up to 200 A.

OVERVIEW

The MO-5889-200 high-current micro-ohmmeter employs the 4 terminals-method (U/I measuring principle) to avoid errors caused by test leads and their contact resistances.

Measurement accuracy is guaranteed by a state-of-thearts signal amplification system, offset-free and of high long-term stability. Resistances readings are shown in the alphanumeric display with up to $4\frac{1}{2}$ digits-resolution. It allows to measure resistances up to 20 m Ω , and the best resolution is $0.1~\mu\Omega$.

Test current may be adjusted by the operator and his value is measured using an analogue indicator (bargraph).

It has an internal memory for up to 200 readings. The USB interface 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. 11 kg) 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.



KEY FEATURES

- Alphanumerical display
- → Direct reading (Up to 4½ digits)
- Resolution: 0.1 μΩ
- Resistance reading: up to 20 mΩ
- Kelvin-type (4-wires) measurement
- Overheating Protection
- ➡ Internal memory for up to 200 readings
- Built-in printer

CONTACT US

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TEST CURRENTS

100 A, 200 A (True DC). The current may be continuously adjustable from 0 to 100%.

RESISTENCE RANGERS

0-1999 $\mu\Omega$ (test current: up to 200 A). 0-19,99 $m\Omega$ (test current: up to 100 A).

READING RESOLUTION

0.1 $\mu\Omega$ for R < 2,000 $\mu\Omega$. 1 $\mu\Omega$ for R < 20 $m\Omega$.

TEST VOLTAGE

3.5 Vcc @ 200 A. 4,5 Vcc @ 100 A. 5,8 Vcc (without load).

MAXIMUM LOAD RESISTANCE

 $10 \text{ m}\Omega$ @ 200 A. $30 \text{ m}\Omega$ @ 100 A.

MEASUREMENT PRINCIPLE

Four-terminal, Kelvin-type.

THERMAL PROTECTION

Protects all sensitive components, avoiding any damage due to overheating.

CONTINUOUS OPERATION TIME

At 200 A this equipment may be used continuously for aprox. 1 minute before the thermal protection activates.

At 100 A this equipment may be used continuously for aprox. 15 minutes before the thermal protection activates.

BASIC ACCURACY

 $\pm~0.5\%$ of reading $\pm~2$ digits.

ADVANCED FEATURES

Digital direct reading of very low resistances in the alphanumerical display, with up to $4\frac{1}{2}$ digits. Very fast and accurate measurements.

BUILT MEMORY

It allows the storage of 200 tests readings.

INTERFACE

USB.

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ENVIROMENTAL

IP54 with closed lid.

SAFETY CLASS

Meets the requirements of IEC 61010-1.

POWER SUPPLY

Mains: 220-240 V~.

OPERATING TEMPERATURE RANGE

-5 °C to +50 °C.

STORAGE TEMPERATURE RANGE

-25 °C to +70 °C.

HUMIDITY RANGE

95% UR (non condensing).

EQUIPMENT WEIGHT

Approx. 11 kg.

DIMENSION

502 x 394 x 190 mm.

ACCESSORIES WEIGHT

Approx. 20.5 kg.

AVAILABLE ACCESSORIES

- 2 Combined current and potential leads.
- 1 Power cord.
- 1 Ground cable.
- 1 USB cable.
- 1 Case for the accessories.
- 1 User guide.

All information provided by Tinsley in this datasheet is believed to be accurate. Tinsley reserves the right to discontinue and change specifications and prices at any time without prior notice. For further details, please refer to our website www.tinsley.co.uk