

MICRO-OHMMETER 5893

tinsley
PRECISION INSTRUMENTS



OVERVIEW

Accurate low resistance measurements can be handled with this battery driven Micro-ohmmeter 5893. Measuring objects are fuses, bus bars, heating elements, circuit breakers, switch gears, relays as well as small inductive loads like motors, transformers, chokes etc.

The measuring object is connected due to the Kelvin/Thompson method with full 4 wire terminal connection. Current cable resistances are eliminated in this way.

The 5893 allows positive, negative and alternating (automatic switching between both directions with average value) current direction to match best to the measuring situation. Even on single direction thermoelectric compensation is possible. A special current selection is for inductive loads with increased measuring time.

Eight ranges are standard together with an automatic range selection. Temperature compensation with a PT100 probe with different coefficients of the material is a build-in feature.

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KEY FEATURES

- ➔ High current up to 10 amps battery driven
- ➔ Resolution 100nΩ (0.1 μΩ) on lowest range
- ➔ Stable and secure operation on transformer windings
- ➔ Battery driven with build in charger (90..250V, 48..62Hz)
- ➔ Easy connection with a PC using our XFER program
- ➔ Compact, portable and rugged metallic case design
- ➔ USB/RS232C Interface standard, cables included
- ➔ Fast loading and reloading capability of inductive objects
- ➔ Protected against transient/inductive overvoltage



TECHNICAL DATA

Object connection	4 pole clamps / banana plug in
Selectable ranges	500.0 μΩ, 5.000 mΩ...5000Ω decadic
Total measuring range	0.1 μΩ to 5000Ω
Resolution	0.1 μΩ on lowest range
Accuracy	±(0.1% Rdg + 0.1% FS)
Current Range	Selectable to 1 mA ..10 A range dep.
Current Mode	Selectable to pos.,neg.,alt.,inductive
Burden voltage	5 V Measurement, 30 V ind.loading
LCD-Display	Alpha-numeric
Data storage	up to 1,000 values
Temperature	-10..50°C working, -20..65°C storage
Rel.Humidity	max. 90 % not condensing
Supplies	Internal battery (sealed acid)
Power supply (Mains)	90...250 V 48..62 Hz
Interface	USB, RS232C, Thermo-Printer (opt.)
Size and weight:	360x220x270mm approx. 8 kg
EMC and Safety	EN55022/EN61000-3-2, -3/EN60950-1

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