



PROMET L100s ■

High-accuracy micro-ohm meter for ohmic and inductive loads

The PROMET L100s is a versatile, mains-independent precision measuring device for determining resistances in the range from microohms ($\mu\Omega$) to ohms (Ω).

Due to the measurement in four-wire technology and the output of high test currents up to 100 A, the device meets the highest requirements for measuring accuracy. PROMET L100s can also be used to determine the winding resistances of transformers, motors and instrument transformers. The PROMET L100s, powered by an interchangeable battery, enhances performance, reliability, and user-friendliness while ensuring quick operational readiness, without relying on mains power.

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Mobility and efficiency with an interchangeable battery

The PROMET L100s micro-ohmmeter features an interchangeable battery, providing full mobility and independence from the mains. This innovative design allows for quick battery changes, ensuring uninterrupted work and enhanced efficiency. The battery is built to withstand demanding environments, offering shock resistance and reliable performance in harsh industrial conditions. A monitoring system displays real-time charging status, and integrated protection mechanisms guard against overcharging and deep discharge. Readily available from tool retailers, the PROMET L100s battery offers flexibility, durability, and optimal workflow efficiency for users in need of high-performance tools.



Interchangeable battery

Small, robust hard case

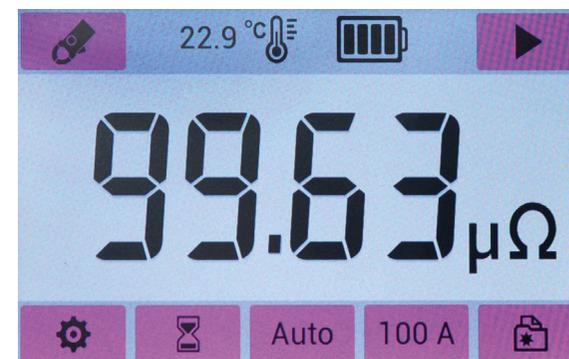
The small hard case of the PROMET L100s offers protection against knocks, drops and other impacts. This makes the measuring device ideal for use in the harshest environments, whether in industry, outdoors or on construction sites.

Simple and intuitive operation

The intuitive operation of the measuring device and the display of test parameters and measurement results are clearly arranged via a resistive 5" touchscreen and function keys. Acoustic signals provide additional information and feedback on settings.

Measure contact resistance and check electrical connections

Regular measurements of contact resistance enable precise assessments of the condition of contact systems and electrical connections. The PROMET L100s reliably detects excessive contact resistance, which can be caused by ageing of the connection, for example. With a static measurement of the contact resistance, necessary maintenance work can be detected at an early stage and downtimes avoided.



Resistance Measurement

Precise determination of the contact resistance with earthing on both sides

The PROMET L100s can be used to precisely determine the contact resistance on the main contacts of switchgear, even with earthing on both sides.

Measurements on inductive loads

PROMET L100s has been designed for a number of applications, including measuring the resistance of inductive loads, such as HV, MV and LV transformers, motors and instrument transformers, for example. A special algorithm ensures that inductive loads are charged and discharged quickly, keeping measurement times short. The charging and discharging of the energy stored in the core are visualized. The measuring device is also equipped with safety functions to protect against discharge arcs when current leads are disconnected.

Measurement with temperature compensation

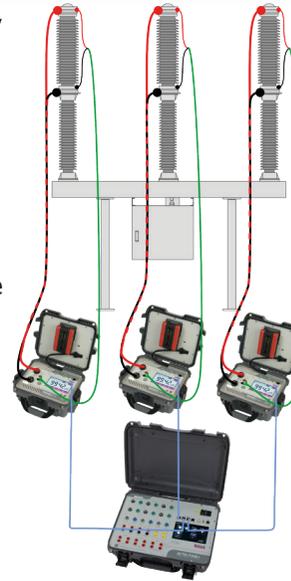
The PROMET L100s can be used to determine resistances in a temperature-compensated manner. To do this, the temperature at the measuring point is recorded with a sensor and the resistance value is calculated taking the reference temperature into account.

Results management and output of test reports via PC

PROMET L100s enables direct connection to a PC. The data stored in the device can be read out and managed using easy-to-use software. The clearly displayed measurement results can also be exported to an Excel spreadsheet or output in a test report.

Integration into switchgear testing with ACTAS

PROMET L100s is equipped with interfaces for connection to ACTAS test devices. Resistance measurement can be conveniently integrated into switchgear tests via the ACTAS test software, enabling automated test sequences and a comprehensive analysis of the test results. The measured values recorded flow directly into the evaluation and are documented in the test report. The combination with ACTAS enables static and dynamic contact resistance measurements on three switch poles simultaneously.



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Current source	
Test current	1...100 ADC
Outputs	1
Output Voltage	10 VDC
Voltage measurement	
Range	25 mV - 250 mV - 2,5 V
Inputs	1
Resistance range	up to 2.5 Ω
External charger	Battery voltage: 12 - 36 V Mains voltage: 220 - 240 V (EU, country-specific) Mains frequency: 50 - 60 Hz Output power: 55 W Loading time for 18 V/4.0 Ah: 80 min
Battery pack	Type: LiHD Voltage: 18 V, Capacity: 4 Ah
Connections	9 mm high-current sockets and 4 mm safety sockets
Housing, dimensions (W x H x D) mm	Hard-top case, (318 x 152 x 257) mm
Weight	4,5 kg (without accessories)
Screen	High-resolution, resistive 5" touch screen
Operation	Touchscreen, Start/Stop-keys
PC interfaces, control	RJ45 (Ethernet), USB-B
Further interfaces	Temperature sensor, current clamp, binary inputs/outputs
Functions	Resistance measurement on ohmic resistances Resistance measurement on inductive loads Resistance measurement with earthing on both sides Resistance measurement with temperature compensation Static and dynamic resistance measurement on switchgear