HIGH-PRECISION OHM METER

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 (µΩ) 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

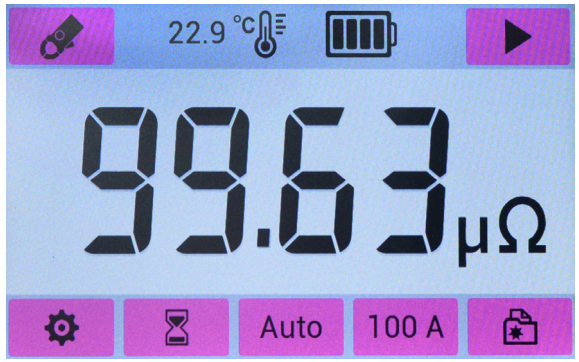
The small hard case of the PROMET L100s offers protection against knocks, drops and other impacts. This makes the measuring device ideal for use in the harshest environments, whether in industry, outdoors or on construction sites.

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.

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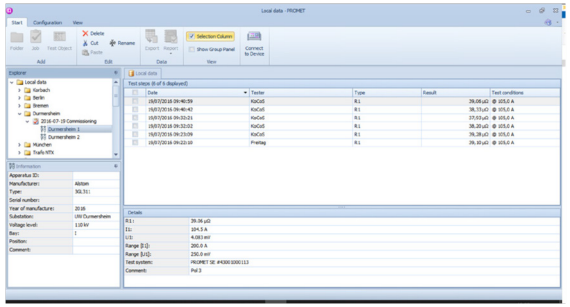
Measurements on inductive loads

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.



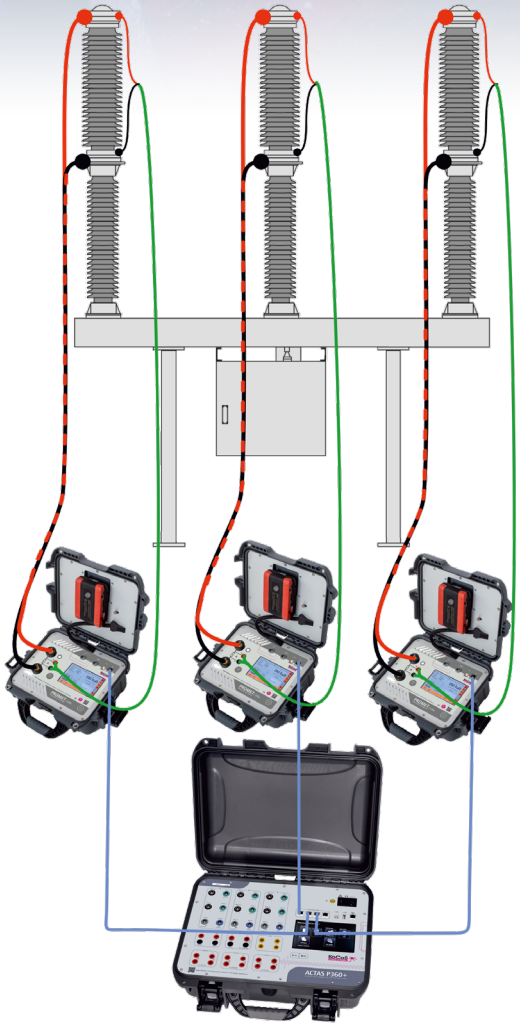
PROMET Sofware

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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General description		High-precision ohm meter with an adjustable test current of up to 100 A. The measuring device is equipped with an exchangeable standard tool battery for mobile use in switchgear or industrial environments.
Current source	Outputs, quantity	1
	Test current	1…100 ADC
	Output voltage	10 VDC
	Adjustable step value	1 A
Voltage measurement	Inputs, quantity	1
	Measuring ranges	25 mV – 250 mV – 2.5 V
Resistance		Up to 2.5 Ω
Accuracy		0.2 %
Measuring time	Range	1…100 A: up to 60 s
	Adjustable step value	1 s
Power supply	Supply voltage	Battery operation independent of the power supply
	Measurements	> 300 Measurements at 100 A
Battery operation	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
Temperature meas. input	Type	Two-wire (PT 1000)
	Temperature range	-20°C…80°C
Current clamps meas. input	Range	2 VAC/DC
High-current connections	High-current sockets	9 mm
Measurement connections	Safety sockets	4 mm
Housing		Hard-top case
Dimensions	(W x H x D) mm	318 x 152 x 257
Weight		4.5 kg
Display		High-resolution, resistive 5" touch screen
Operation		Touchscreen, Start/stop button
Internal data memory	Capacity	4 GB
Interfaces	PC interfaces	RJ45 (Ethernet), USB-B
PC		PROMET - Operating software for Windows

Environment	Operating temperature	-10…50°C
	Storage temperature	-20…60°C
	Relative humidity	5…80%, non-condensing
	Protection class	IP67 (closed)
	Safety	DIN EN 61010-1 300 V~CAT II
	Product standard	DIN EN 61326-1
Measurement functions		Resistance measurement on ohmic resistances
		Resistance measurement with earthing on both sides
		Resistance measurement with temperature compensation
		Static and dynamic resistance measurement with ACTAS systems