

PROMET L10

SPECIFICATIONS



General description

Compact, battery-operated micro-ohm meter for ohmic and inductive loads. The use of four-wire measuring technology and high test currents of up to 10 A enable PROMET L10 to meet the most stringent accuracy requirements when determining resistances in the $\mu\Omega$ to $k\Omega$ range.

Because PROMET L10 can carry out measurements on inductive loads, it can also be used to determine the winding resistances of transformers, motors and instrument transformers.

Measurement functions		Resistance measurement on ohmic resistances Resistance measurement on inductive loads Resistance measurement with temperature compensation		
Current source	Outputs, number	1		
	Test current	1 mA...10 A		
	Output voltage	5 VDC		
	Power	25 W _{max}		
	Range, step width	1 mA...20 mA, 1 mA 20 mA...200 mA, 10 mA 200 mA...10 A, 100 mA		
Voltage measurement	Inputs, number	1		
Measurement method		4-wire, Kelvin method		
Resistance	Range	Up to 5 k Ω		
Inductive load	Range	Up to 500 H		
Transformer	Power	Up to 500 MVA		
Measurement parameters	Test current	Measuring ranges	Max. resistance	Resolution
	Mode: Constant current	5.000 mV	5.000 Ω	0.001 Ω
	Range: 20 mA	50.00 mV	50.00 Ω	0.01 Ω
	1...20 mA / 0.1 W	500.0 mV	500.0 Ω	0.1 Ω
		5.000 V	5.000 k Ω	1 Ω
	Mode: Constant current	5.000 mV	250.0 m Ω	0.1 m Ω
	Range: 200 mA	50.00 mV	2.500 Ω	0.001 Ω
	20...200 mA / 1 W	500.0 mV	25.00 Ω	0.01 Ω
		5.000 V	250.0 Ω	0.1 Ω
	Mode: Constant current	5.000 mV	25.00 m Ω	0.01 m Ω
	Range: 1 A	50.00 mV	250.0 m Ω	0.1 m Ω
	200 mA ...1 A / 5 W	500.0 mV	2.500 Ω	0.001 Ω
		5.000 V	25.00 Ω	0.01 Ω
	Mode: Constant current	5.000 mV	5.000 m Ω	0.001 m Ω
	Range: 10 A	50.00 mV	50.000 m Ω	0.01 m Ω
	1 A ...10 A / 5 W	500.0 mV	500.0 Ω	0.1 m Ω
		5.000 V	5.000 Ω	0.001 Ω
	Mode: Resistance	5.000 mV	5.000 m Ω	0.001 Ω
	5 V / 0.5 W	50.00 mV	50.000 m Ω	0.01 Ω
	Current limit: 10 mA	500.0 mV	500.0 Ω	0.1 Ω
		5.000 V	5.000 Ω	0.001 k Ω
Accuracy		0.2% of range		

Power supply	Supply voltage	Battery operation independent of the power supply
	Integrated batteries	Microprocessor-controlled monitoring Battery life for up to 8 hours
	PSU input voltage	100...240 V AC, 50/60 Hz
	PSU output voltage	24 V / 0.5 A DC; 30 W _{max}
Battery operation	Number of measurements	100 measurements at 10 A at 100 μΩ
Measurement connections		Multi-pole system sockets
Housing	Dimensions (W x H x D) mm	100 x 230 x 35
	Weight	0.6 kg
	Weight cables	1.0 kg
Operation	Stand-alone	Graphical LC display, 128 x 64 Pixel, backlit 7 function keys, one-handed operation
	Smartphone	Android app
	Display elements	2 status LEDs
Interfaces	Communication	Bluetooth for Android
	Temperature measurement input	Digital or two-wire -20°C...80°C
Operating conditions	Operating temperature	-5°C...50°C
	Storage temperature	-20...60°C
	relative humidity	5...95%, non-condensing
	Protection	IP31
	CE conformity	EN 61010-1: 2011 Safety requirements for electrical equipment for measurement, control, and laboratory use EN 61326-1: 2013 Electrical equipment for measurement, control and laboratory use - EMC requirements