

# 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.

<b>Measurement functions</b>		Resistance measurement on ohmic resistances Resistance measurement on inductive loads Resistance measurement with temperature compensation		
<b>Current source</b>	Outputs, number	1		
	Test current	1 mA...10 A		
	Output voltage	5 VDC		
	Power	25 W <sub>max</sub>		
	Range, step width	1 mA...20 mA, 1 mA 30 mA...200 mA, 10 mA 300 mA...1 A, 100 mA 1.1 A...10 A, 100 mA		
<b>Voltage measurement</b>	Inputs, number	1		
<b>Measurement method</b>		4-wire, Kelvin method		
<b>Resistance</b>	Range	Up to 5 $k\Omega$		
<b>Inductive load</b>	Range	Up to 500 H		
<b>Transformer</b>	Power	Up to 500 MVA		
<b>Measurement parameters</b>	<b>Test current</b>	<b>Measuring ranges</b>	<b>Max. resistance</b>	<b>Resolution</b>
	Mode: Constant current	5.000 mV	5.000 $\Omega$	0.001 $\Omega$
	Measuring range: 20 mA	50.00 mV	50.00 $\Omega$	0.01 $\Omega$
	1...20 mA / 0.1 W	500.0 mV	500.0 $\Omega$	0.1 $\Omega$
		5.000 V	5.000 $k\Omega$	0,001 $k\Omega$
	Mode: Constant current	5.000 mV	166.7 m $\Omega$	0.1 m $\Omega$
	Measuring range: 200 mA	50.00 mV	1.667 $\Omega$	0.001 $\Omega$
	30...200 mA / 1 W	500.0 mV	16.67 $\Omega$	0.01 $\Omega$
		5.000 V	166.7 $\Omega$	0.1 $\Omega$
	Mode: Constant current	5.000 mV	16.67 m $\Omega$	0.01 m $\Omega$
	Measuring range: 1 A	50.00 mV	166.7 m $\Omega$	0.1 m $\Omega$
	0.3 mA ...1 A / 5 W	500.0 mV	1.667 $\Omega$	0.001 $\Omega$
		5.000 V	16.67 $\Omega$	0.01 $\Omega$
	Mode: Constant current	5.000 mV	4.545 m $\Omega$	0.001 m $\Omega$
	Measuring range: 10 A	50.00 mV	45.45 m $\Omega$	0.01 m $\Omega$
	1.1 A...10 A / 25 W	500.0 mV	454.5 m $\Omega$	0.1 m $\Omega$
		5.000 V	4.545 $\Omega$	0.001 $\Omega$
	Mode: Constant voltage	5.000 mV	5.000 $\Omega$	0.001 $\Omega$
	5 V / 0.05 W	50.00 mV	50.00 $\Omega$	0.01 $\Omega$
	Current limit: 10 mA	500.0 mV	500.0 $\Omega$	0.1 $\Omega$
		5.000 V	5.000 $k\Omega$	0.001 $k\Omega$
<b>Accuracy</b>		0.2% of range		

<b>Power supply</b>	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 <sub>max</sub>
<b>Battery operation</b>	Number of measurements	100 measurements at 10 A at 100 μΩ
<b>Measurement connections</b>		Multi-pole system sockets
<b>Housing</b>	Dimensions (W x H x D) mm	100 x 230 x 35
	Weight	0.6 kg
	Weight cables	1.0 kg
<b>Operation</b>	Stand-alone	Graphical LC display, 128 x 64 Pixel, backlit 7 function keys, one-handed operation
	Smartphone	Android app
	Display elements	2 status LEDs
<b>Interfaces</b>	Communication	Bluetooth for Android
	Temperature measurement input	Digital or two-wire -20°C...80°C
<b>Operating conditions</b>	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