PROMET L100

SPECIFICATIONS

General description		High-precision ohm meter with an adjustable test current of up to 100 A. The measuring device is equipped with a rechargeable battery for portable use in switching stations and industrial environments. PROMET L100 can also be used to determine the winding resistances of transformers, motors and instrument transformers.
Current source	Outputs, quantity	1
	Test current	1 to 100 ADC
	Output voltage	20 VDC
	Adjustable step value	1 A
Voltage measurement	Inputs, quantity	1
Resistance	Range	Up to 20 Ω
Inductive load	Range	Up to 1000 H
Transformer	Power	Up to 1 GVA
Meas. parameters	**Test current**	**1…19 A / 400 W**

Measuring ranges	**Max. resistance**	**Resolution**
0.02 V	20 mΩ	1 µΩ
0.2 V	200 mΩ	10 µΩ
2 V	2 Ω	100 µΩ
20 V	20 Ω	1 mΩ

	Test current	**20…100 A / 1000 W**

Measuring ranges	**Max. resistance**	**Resolution**
0.02 V	1000 µΩ	0.1 µΩ
0.2 V	10 mΩ	1 µΩ
2 V	100 mΩ	10 µΩ
20 V	1 Ω	0.1 mΩ

Accuracy		0.2 %
Meas. time	Range	1…19 A: up to 20 min 20…50 A: 3…20 s (pre-selectable) 51…100 A: 3…15 s (pre-selectable)
	Adjustable step value	1 s
Power supply	Supply voltage	Battery operation independent of the power supply
	Built-in battery charger	Input: 100…240 VAC; 50/60 Hz
Battery operation	Charging time	6…8 h
	Number of measurements	> 300 measurements at 100 A
Binary inputs	Quantity	2
Binary outputs	Quantity	2
Temperature meas. input	Type	Digital or two-wire
	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	425 x 340 x 170
Weight		9.3 kg
Display		High-resolution, resistive 5" touch screen
Operation		Touch screen, 5 function keys
Internal data memory	Capacity	900 tests
Interfaces	PC interfaces	RJ45 (Ethernet), USB-B
Environment	Operating temperature	-10°C...50°C
	Storage temperature	-20…60°C
	Relative humidity	5...80%, non-condensing
	Protection class	IP65 (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 on inductive loads Resistance measurement with earthing on both sides Resistance measurement with temperature compensation Static and dynamic resistance measurement with ACTAS systems