

4½ - DIGIT MICRO-OHM METER

PE-16R



KEY FEATURES

- ▶ 0.1 $\mu\Omega$ to 2 k Ω with basic accuracy of 0.05% in 7 different ranges
- ▶ 4½ digit LED display
- ▶ 0.1 $\mu\Omega$ resolution
- ▶ 10A DC max. test current
- ▶ True 4-wire/Kelvin resistance measurement technique
- ▶ Low PPM/°C
- ▶ Fast response and field proven since more than 2 decade

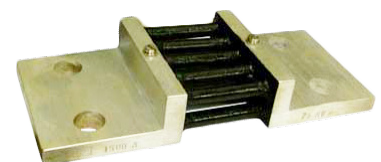
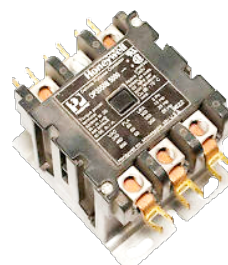
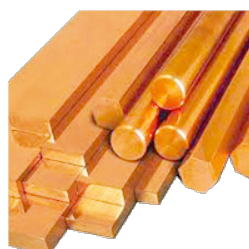
OPTIONAL FEATURES

- ▶ PC interface & Memory Storage
- ▶ Temperature Sensor & Corrected readings
- ▶ Comparator Facility
- ▶ Resistivity & % IACS Calculation
- ▶ Battery Operation & Field portable Version

Digital Micro - Ohm Meter MODEL PE - 16R (10A DC test current) manufactured by Prestige Electronics is ideally suited for measuring very low resistance down to 0.1 $\mu\Omega$. Use of four wire system eliminates lead resistance errors. The PE-16R has 4½ digit LED display with resistance measurement range from 2 m Ω to 2 k Ω with minimum resolution of 0.1 $\mu\Omega$. This mains-operated meter is very rugged, portable and light weight with high degree of accuracy, stability and repeatability. The PE-16R is suitable for measuring resistances of cables, wires, conductors, busbars, switches, shunts, chokes, motors, transformers (CTs & PTs), contactors and other resistive/ low inductive materials.

APPLICATIONS

- ▶ All types of Wires & Cable resistance
- ▶ Switches, circuit breakers, MCBs resistance
- ▶ Busbar & Conductor resistance
- ▶ Motor winding resistance
- ▶ Transformer winding resistance
- ▶ Shunt resistance (upto 10000 Amp.)
- ▶ Joint resistance/bond testing
- ▶ Metallurgical applications



SPECIFICATIONS

Technical Specifications

RANGE	RESOLUTION	TEST CURRENT	ACCURACY
0-1999.9 $\mu\Omega$ (0-1.9999 m Ω)	0.1 $\mu\Omega$	10 A	0.05% of reading \pm 0.01% of range
0-19.999 m Ω	1 $\mu\Omega$	1 A / 10 A ¹	0.05% of reading \pm 0.01% of range
0-199.99 m Ω	10 $\mu\Omega$	1 A / 10 A ¹	0.05% of reading \pm 0.01% of range
0-1.9999 Ω	100 $\mu\Omega$	0.1 A	0.05% of reading \pm 0.01% of range
0-19.999 Ω	1 m Ω	10 mA	0.05% of reading \pm 0.01% of range
0-199.99 Ω	10 m Ω	1 mA	0.05% of reading \pm 0.01% of range
0-1.9999 k Ω	100 m Ω	0.1 mA	0.05% of reading \pm 0.01% of range

Temperature coefficient: 50 PPM/°C

¹ Shall be provided on request.

General Specifications

DISPLAY	4½ digit (12.5 mm) LED display
POWER	230V \pm 15% 50/60 Hz
OPERATING TEMPERATURE	5° to 50° C
TEMPERATURE COEFFICIENT	50 PPM/°C
RELATIVE HUMIDITY	55% \pm 10%
OVER-RANGE INDICATION	OL display

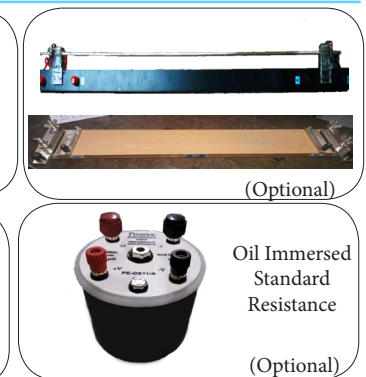
ACCESSORIES

Standard accessories

NAME	QUANTITY
2-meter long test lead set with crocodile clips	1
Moulded Mains cord	1
Operating manual	1

Optional accessories

- Test leads with gold-plated Kelvin clips
- Test leads upto 10-meter long
- Heavy-duty crocodile clips, 'C' clamps(4" or 6"), Pointer probe
- Standard Resistance (100 $\mu\Omega$ to 100 Ω) / Oil immersed Standard resistance
- Standard Decade Resistance box
- 1-meter stand Models for all types of cables & conductors
- Rugged wooden / Hard Plastic ABS carrying case



NOTES: 1. The Instrument is accompanied with test and calibration certificate. 2. All measurement standards are traceable to NABL accredited labs. 3. NABL calibration optional. 4. Specifications are subject to change without notice. 5. Prompt services

Designed & Manufactured by

Prestige ELECTRONICS

5/265, Ashirwad Industrial Estate, Ram Mandir road, Goregaon (West), Mumbai - 400104, Maharashtra, India

☎ +91-22-6697 8019 / 9004033520

✉ sales@prestigeelectronics.com / operations@prestigeelectronics.com

🌐 www.prestigeelectronics.com

🌐 www.resistancemetersindia.com