



PREMIER'S EARTH CONTACT RESISTANCE TESTER- ADVANCED MODEL

Model: PE 900R



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APPLICATIONS:

- Electrical Grounding Systems
- Lightning Protection Systems
- Substation Grounding
- Telecommunications Grounding
- Industrial Facilities
- Data Centres
- Safety Compliance Testing

FEATURES:

- Designed with relevant ISI drafted specification.
- Measures earthing contact resistance of Domestic/Industrial Electrical Appliances.
- Direct indication of resistance, with internal resistance compensated

Premier Electrosystems, 3, Planet Ind Est, Subhash Road, Vile Parle E, Mumbai- 057, MH, INDIA
Email : feedback@premierin.com Tel : +91 99 88 11 73 72 Website : www.premierin.com



TECHNICAL SPECIFICATIONS:

Display	: 4 digit, 3 row LED display
Output Type	: AC (DC Available on request)
Current Section	:
Test Current	: A) 0 - 30.0 A, continuously variable by means of dimmer B) Any other range as per requirement
Resolution	: 0.1 A
Accuracy	: 0.6% ± 1 count
Voltage Section	:
Voltage Range	: A) 0-6 V B) Any other range as per requirement
Range	: 0- 6.00 V AC
Resolution	: 0.01 V
Accuracy	: 0.6% ± 1 count
Resistance Section	:
Range	: 0- 1.000 Ω
Resolution	: 0.001 Ω
Accuracy	: 0.6% ± 1 count
Compensation	: Auto compensated for internal and patch cord resistance.
Set Point	: User settable set point with FAIL indication
LED Indications	: Test On, Test Off, Pass, Fail LED indication
Buzzer	: On when Test On OR When Test Fail
Operation	: Single Button Operation
Accuracy	: 0.6% ± 1 count
Power	: 230 V AC ± 10%, 50Hz.
Dimensions (cm)	: 30 (W) * 18 (H) * 22 (D)

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VIDEO LINK:



Order Code:

Model	RESISTANCE DISPLAY	O/p	Voltage	Current	Optional 1	Optional
PE900	R	AC	6	30	X	X
	R- YES X- NO	AC: AC DC: DC	6: 0-6 V 12: 0-12 V X: Pls Specify	30: 0-30 A 50: 0-50 A X : Pls specify	O1: Timer 485: RS 485 O/P	O1: Timer 485: RS 485 O/P

Eg: PE900 R-AC-6-30-X-X

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OPERATING INSTRUCTIONS:

A. To set the resistance limit

1. Press the SET button on the unit.
2. Using the UP/ DOWN keys, navigate to the option RES(Resistance).
3. Press the SET button, the first display starts blinking.
4. Using the UP and DOWN keys, adjust the required value in Ohms. (Default: 0.100)
5. Press the SET button, the first display stops blinking, and then press the ESC button.

The required resistance limit is now set.

Other Functionalities (Factory Programmable):

- Change Buzzer setting to - 'alert on test fail' or disable buzzer. (Default setting is Buzzer on when ECR on for safety purpose)
- 4 terminal test method for higher accuracy.

HOW TO USE AN ECR TESTER:

A. For Appliances Rated Upto 16 Amp (As per IS 302)

1. Connect the Red terminal of the ECR tester to any accessible metal part on the body of the appliance and the Black terminal to the Earth pin of the mains cord.
2. To set the FAIL limit, User has to press the SET button> set the desired value of the resistance by Up/ Down keys and press the SET button to save the value
3. Press the Start button on the ECR
4. Using the dimmer, adjust the current to 25 Amp
5. If the resistance is less than or equal to **0.100**, unit is considered PASS
6. If the resistance crosses the Set value, the unit automatically trips and FAIL led turns on.

INTERNAL RESISTANCE IS AUTO COMPENSATED. DO NOT USE SUBTRACTION FORMULA AS IN OLDER VERSIONS.



B. For plugs & sockets upto 16 Amp (As per IS 1293)

1. Connect the Red terminal of the ECR tester to any phase of the plug/ socket, And the black terminal to the corresponding phase of the test socket/ plug.
2. Using the dimmer, adjust the current. Test current for plug/ socket rated upto 10 Amp will be 14 Amp and for 16 Amp will be 20 Amp. Duration of the test is 1 hr.
3. Place the setup in the wooden box provided, using the temperature logger, check if the temperature of the plug/ socket. If it does not increase 45 deg above ambient temperature, the sample has passed the temperature rise test. If temperature rises 45 deg above ambient, sample has failed the test.

C. For Plugs & sockets upto 16 Amp (As per IS 1293)

1. Connect the Red terminal of the ECR tester to any accessible metal part on the body of the plug/ socket and the Black terminal to the Earth pin.
2. Using the dimmer, adjust the current to 25 Amp.
3. If the Voltage measured is less than or equal to 1.25 V, plug/ socket has passed the ECR test, else it has failed.
- 4.

****KINDLY CHECK RELEVANT STANDARD BEFORE TESTING***

D. VIDEO DEMONSTRATION OF ECR TESTER (PE 900R)



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Scan the QR Code

NOTES :