

# 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. Using the dimmer, adjust the current to 25 Amp
3. If the Voltage measured is less than or equal to 2.5 V, appliance has passed the ECR test, else it has failed.

## ***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.

*\*KINDLY CHECK RELEVANT STANDARD BEFORE TESTING*

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