

⚠ DANGER
Do not input voltage to the resistance measurement functions. Doing so may damage the instrument or cause an accident resulting in injury or death.

Turn off the power and discharge the capacitors before measuring resistance in a circuit.

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- Diagram illustrating the measurement of resistance using a digital multimeter (DMM). The DMM is set to the resistance mode (Ω). The display shows the measurement value 5.1 kΩ. The diagram also shows a resistor being measured with the DMM probes.

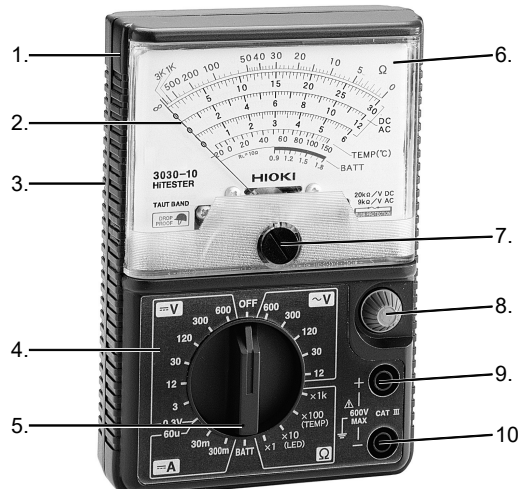
1. Set the range switch to the $\Omega \times 10$ (LED) range.
2. Connect the test leads to both sides of the LED to be tested.
3. The LED has polarity, so unless it light in 2., try reversing the test leads connections.
4. When it lights, the pointer deflect, however a reading has no meaning.

NOTE: The internal battery of the Ω meter has positive polarity in the - terminal. Therefore, it is right to connect the red (+) test lead to the cathode side of the LED, and the black (-) one to the anode side.

- Scale
- Measurement value 1.5 V

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3. Replace the batteries and fuse.
- Insert the batteries with the polarity correct as per the battery indication
- FUSE
- Spare fuse
A good one should always
1. Fit the nail on the edge of the lower part.

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| DCV | *0.3/3/12/30/120/300/600 V, 20 kΩ/V (0.3 V:16.7 kΩ/V), ±2.5% of f.s. reading |
| ACV (50 Hz/60 Hz) | 12/30/120/300/600 V, 9 kΩ/V, ±2.5% of f.s. reading (12 V: ±4%) |
| DCA | *60 μA, 30/300 mA, internal voltage drop (nominal value) 300 mV, ±3% of f.s. reading |
| Ω | 0 to 3 kΩ, central scale 30 Ω, R x 1/R x 10/R x 100/R x 1 k, ±3% of scale length |
| BATT | 0.9 to 1.8 V, load resistance 10Ω, ±6% of f.s. reading |
| Temperature scale | -20 to 150°C (standard), -20 to 300°F (for USA only), ±3% of scale length Note: Requires use of Thermistor Temperature Probe 9021-01, which has been discontinued. |
| Protective system | Short circuit protection of power line by fuse (up to 250 VAC commercial power input) Note: This system is not for protecting the instrument from damage but for securing safety. Overload protection of meter device by diode |
| Meter | Internally magnetized taut band |
| Fuse | F0.5 AH/250 V, 20 mm x 5.2 mm dia. (non-arcing type), Internal resistance Approx. 0.866 Ω |
| Drop proof | One meter to concrete |
| Standards applying | Safety EN 61010-1:2001 Measurement Category III (anticipated transient overvoltage 6000 V) EMC EN 61326-2-2:2006 |



1. Panel
2. Pointer
3. Case back
4. Face plate
5. Range selector switch
6. Scale plate
7. Zero adjuster
8. Zero ohm adjuster
9. Positive (+) terminal
10. Negative (-) terminal