

AE-780 Resistance Meter

The AE-780 Resistance Meter is an easy-to-use tester for measuring surface resistance. When used with the AE-781 Accessory Kit, the AE-780 Resistance Meter is a dependable audit kit for conductive and dissipative surfaces. This meter is designed for use in all facets of material production including engineering, maintenance, quality control, incoming inspection, manufacturing and research, or in sales departments for the testing of anti-static mats, floor finishes, paints, wrist straps, smocks, footwear, bags and containers.

When using the built-in probes, the meter's test values for surface resistivity are in ohms per square (although they are displayed in ohms). When using the external 5-lb probes, the meter's test values for resistance are in ohms.

SPECIFICATION

Dimension:	70mm x 130mm x 35mm
Weight:	103 grams
Test Range:	10^3 to 10^{12}
Accuracy:	± 0.5 Decade in Conductive Range ± 0.25 Decade in Dissipative Range

DECADE SCALE

10^3	=	1 kilohm
10^4	=	10 kilohms
10^5	=	100 kilohms
3×10^5	=	300 kilohms
10^6	=	1 meg ohm
3×10^6	=	3 meg ohm
10^7	=	10 meg ohms
3×10^7	=	30 meg ohms
10^8	=	100 meg ohms
3×10^8	=	300 meg ohms
10^9	=	1000 meg ohms
3×10^9	=	3000 meg ohms
10^{10}	=	10,000 meg ohms
10^{11}	=	100,000 meg ohms
10^{12}	=	1,000,000 meg ohms



The test value is indicated on the LED display. Half decades provide greater accuracy by giving a closer approximation to the measurement value. An LED will brighten to the according test result. Colors signify the test value's function.

COLOR	INDICATING FUNCTION	Ω
Green	Conductive	$10^3 - 10^5$
Yellow	Dissipative: ideal test measurement	$3 \times 10^5 - 10^9$
Orange	Dissipative, but close to going out of spec	$3 \times 10^9 - 10^{10}$
Red	Near - insulative to insulative	$10^{11} - 10^{12}$

