

AUTORANGING RESISTANCE INDICATOR

Model 880
Model 818

Compact, low cost, precision, LED resistance indicator measures from $<10^3$ to $>10^{12}$ Ohms using built-in electrodes or external probes.

Features:

- Autoranging: $<10^3$ to $>10^{12}$
- Autoselect test voltages: 10 & 100V
- Built-in parallel bar electrodes
- Auxiliary probe input jacks
- 10% measurement accuracy
- Resistance-to-Ground Cable
- Carrying case and Resistance-to-Ground
- CE compliant



Model 880

Applications:

Many applications require the measurement of resistance or resistivity over a wide range, especially in the static control industry where material, product and manufacturing support require resistance characteristics to be within specified ranges. Conductive material used in packaging, components and certain material handling systems require measurements in the kilohm to megohm range. On the other hand, manufacturing support such as floors, table tops and mats, seating and garments require measurements in the megohm range, while the resistance of packaging is usually in the gigohm range.



Model 818 Kit

The ETS Model 880 Autoranging Resistance Indicator is a compact precision indicator that provides the user with a cost effective instrument to quickly and easily check the resistance of product at the specified 10 and 100V test voltages.

The Model 880 is also available as part of the Model 818 Resistance Measuring Kit to quickly check flooring, table tops, seating and packaging for meeting specified resistance requirements.



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Description:

The Model 880 Autoranging Resistance Indicator is a **CE** compliant, easy to use precision instrument incorporating features found only in more expensive units. Twelve (12) LEDs indicate the Conductive (Green), Static Dissipative (Yellow) and Insulative (Red) ranges in one (1) decade steps from $<10^3$ to $>10^{12}$ Ohms.

Accuracy is $\pm 10\%$ of mean value, with changeover points of $\frac{1}{2}$ decade on logarithmic scale.

Measurements in the Conductive range ($<5 \times 10^5$ Ohms) are made at 10 Volts. All remaining measurements are made at 100 Volts.

The standard measurement electrodes, shown in the figure below, consist of chrome-plated parallel bars 2.5" (64mm) long, spaced 1.56" (40mm) apart. The conversion to surface resistivity is 1.6, however, the measurement resolution of one decade enables the user to convert the indicated resistance in Ohms directly into surface resistivity in Ohms/sq.



Parallel bar electrodes



Optional Model 850



Optional Model 844



Optional Model 832

Auxiliary input jacks of the Model 880 enables the user to plug in other resistance probes, shown above, to make additional resistance measurements. The built-in parallel bar electrodes are automatically disconnected when external probes are used. The Model 880 with included ground cable also enables resistance-to-ground (RTG) measurements to be checked. The instrument plus all standard accessories are housed in a vinyl carry case.

The Model 818-1 Resistance Measuring Kit includes two, ETS Model 850, 5 lb (2.2kg), 2.5" (64mm) diameter Surface Resistance Probes, Model 256 North American 120VAC Utility Wiring Verifier plus plate electrode to provide compliant RTG and point-to-point resistance measurements. Other measurements with appropriate probes, such as 2-point resistance using the Model 844, can also be made. The Kit is housed in a sturdy molded carrying case. (For locations with 230VAC mains order Model 818-2 to omit Verifier.)

Specifications:

Range: $<10^3$ to $>10^{12} \Omega$

Range Select: Autoranging

Test Voltage:

10V (@ $<10^5 \Omega$)

100V @ $>10^6 \Omega$

Accuracy: $\pm 10\%$ of mean value

Power: 1-9 Volt alkaline battery

Low battery indication

Display: 12 - 2mm LED point source

Conductive range: $<10^3 - 10^5$ (4 Green)

Dissipative range: $10^6 - 10^{11}$ (6 Yellow)

Insulative range: $>10^{12}$ (2 Red)

Electrodes: Parallel bars (2.5" (64mm))

External Input: V_E & Sense .161" (4mm) Banana jacks

Dimensions: 5.0"x2.5"x1.1" (130x65x28mm)

Weight: 8.3 oz (230gm)

Warranty: One (1) Year

Specifications subject to change without notice.

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