

## Wide Range Resistance Meter Model 871



**Perform quick and easy resistance measurements with this compact, battery/AC powered instrument.**

Resistance characterization is a critical parameter for products used in applications and environments where the buildup and dissipation of static charge is of concern. The ETS Model 871 highly accurate, autoranging resistance meter measures values ranging from Ohms to Teraohms using specified test voltages of 10 and 100 Volts.

The Model 871 is compatible with the expansive line of ETS resistance probes plus other probes that utilize the standard banana plug interface to obtain readings from virtually any surface or object. Meeting all relevant ESDA, ASTM, EIA, SAE, DOD, and international IEC, CECC specifications, the Model 871 is the instrument for obtaining precision resistance measurements.

### Applications

- Electronic Packaging
- Clean Rooms
- Medical Products
- Plastics Formulation
- Military Requirements
- R&D Materials
- Textile Applications
- Hazard Control
- Materials Engineering
- Static-Safe Requirements

### Key Features

- Highly accurate, easy to use package
- Measurement range:  
1x10<sup>2</sup> - 1x10<sup>11</sup> Ω @ 10V  
1x10<sup>5</sup> - 1x10<sup>12</sup> Ω @ 100V
- Accuracy:  
±2%, 10<sup>2</sup> - 10<sup>9</sup> Ω  
±5%, 10<sup>9</sup> - 10<sup>12</sup> Ω
- Autoranging
- COMM Port for digital recording of data
- Battery or AC Powered
- Compatible with all resistance probes with standard 4mm banana plug

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Questions? Here's how to contact our experts

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electrotechsystems.com



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### Specifications

**Measurement range:**

1x10<sup>2</sup> - 1x10<sup>11</sup> Ω @ 10V  
1x10<sup>5</sup> - 1x10<sup>12</sup> Ω @ 100V

**Test voltage:**

10 & 100V ±5%  
Voltage Select: Manual

**Resolution:**

±0.01

**Accuracy:**

±2% @ 10<sup>3</sup> - 10<sup>9</sup> Ω; ±5% @ 10<sup>9</sup> - 10<sup>12</sup> Ω

**Display:**

2-line LCD alphanumeric  
Backlite OFF with battery power.  
Backlite ON with AC Adaptor

**Connectors:**

Probe Connections: 0.161" (4mm) Banana jacks  
Ve (Red), Sense (Blk), Signal Ground (Grn)  
Earth Ground 0.161" (4mm) Banana jack  
Probe Cable: 3' (92cm) 3-cond., shielded, Teflon™

**Foot switch:**

0.13" (3.5mm) to Center pin

**COMM PORT:**

9-pin sub-D, RS232:

**Power:**

2 x 9V Alkaline batteries  
AC Adapter 90-250VAC, 50/60 Hz, 18 VDC

**Warranty: One (1) Year – Parts & Labor**

To ensure consistent and valid results annual sensor calibration is required  
Contact: [service@ets2.com](mailto:service@ets2.com) for assistance.



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