Technic Conductivity Test Apparatus
About the Conductivity Test Apparatus

The Conductivity Test Apparatus (CTA) is a simple device that works in conjunction with an ohm meter.

CTA Benefits:

• Constant calibrated weight applied to test strip / slide
• Four calibrated probes to accurately measure resistivity (per ASTM D2739)
• Easy set up to Ohm meter for quick readings with consistent precision
• Gold plated Copper electrodes!

Weight: 5.7 lbs. (2590 grams)
Length: 9” (23 cm)
Width: 4“ (10 cm)
Height: 3.75” (9.5 cm)
Materials Needed

- Conductivity Test Apparatus (CTA)
- Calibrated weight (included)
- Slide with conductive paste/ink/adhesive
- Ohm meter (microcontroller) (not included)
- Set up on a level surface near an outlet
Set Up

- Set up on a level surface near an outlet
  - This is to connect the Ohm meter

- Correctly hook up the four electrodes to the CTA and Ohm meter as seen in the pictures 1 and 2 to the right.

![Picture 1: CTA electrode hook up example.](image1)

![Picture 2: Ohm meter electrode hook up example.](image2)
Set Up Continued

- Take testing slide (see picture 3) and place it on top of the four electrodes on top of the CTA (see picture 4).

- Jig is available for making test strip (please inquire)

Picture 3: Example of testing slide with conductive silver paste on one side.

Picture 4: Example of testing slide with conductive silver paste on one side.
• Pick up weight seen in picture 5.

• Place weight directly on top of testing slide, seen in picture 6.
• Read and record the resistivity on the Ohm meter.

• You can use this value to calculate the conductivity of your conductive test slide.

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\text{Volume Resistivity} = \frac{\text{Resistance (Ω) } \times \text{Thickness (mm) } \times \text{Width (mm)}}{\text{Distance Between Measuring Points (mm)}}
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