

2182A Nanovoltmeter



Applications

- **Research**
 - Determining the transition temperature of superconductive materials
 - I-V characterization of a material at a specific temperature
 - Calorimetry
 - Differential thermometry
 - Superconductivity
 - Nanomaterials
- **Metrology**
 - Intercomparisons of standard cells
 - Null meter for resistance bridge measurements
- **Nanotechnology Application**
 - Carbon Nanotube Resistance Measurements
 - Silicon Nanowires

Benefits

- Make low noise measurements at high speeds
- Delta mode coordinates measurements with a reversing current source (62xx/2182A)
- Dual channels support measuring voltage, temperature, or the ratio of an unknown resistance to a reference resistor
- Built-in thermocouple linearization and cold junction compensation

Allied Products

- 6221, 6220

Frequently asked questions

- Which interfaces are available? –GPIB (IEEE-488.2) and RS-232C
- Can I use the 2182A/E for measuring precise low resistance materials or devices? Yes, when creating a Delta Mode system with the 622xx Current Sources.
- Can I measure temperatures? -Yes, thermocouples,CJC,TYPE:J, K, T, E, R, S, B,N