Energy Band Gap By Four Probe Method



Product Categories: <u>Characteristics And Application</u>, <u>Characteristics And</u> <u>Application</u>, <u>Electronics</u>, <u>Engineering Equipment</u>

Product Page:

https://www.labappara.com/product/energy-band-gap-by-four-probe-method/

Product Description

Energy Band Gap By Four Probe Method

Experiment consists of the following :

Probes Arrangement : It has four individually spring loaded, coated with Zn at the tips. The probes are collinear and equally spaced. The Zn coating & individual spring ensure good electrical contacts with the sample. The probes are mounted in a bush which ensure a good electrical insulation between the probe. A spacer near the tips is also provided to keep the probes at equal distance. The whole arrangement is mounted on a suitable stand and leads are provided for current and voltage measurements.

Features :

Sample : Ge (Germanium) crystal in the form of a chip slice.

Oven : It is a small oven for the variation of temperature of the crystal from room Temperature to about 200Deg C. Operating Temperature is 180DegC Four Probes Set-up : (Measuring Unit)-LCD Display for all Parameters

Soft Press Keys for Menu **USB** Interface Software provided for PC Interface Direct Graph Plot & calculation of Band GapE of Energy g as per Selected Point from Graph **Technical Specification** Voltage Range :0 – 4.000V Resolution :1mV at 4V range Accuracy : \pm 0.1 % of reading \pm 1 digit Current range :0 - 20 mA Resolution :10 µA Accuracy : \pm 0.25 % of the reading \pm 1 digit. Memory capacity :8 KB Logging :up to 256 readings storage PC interface :USB Selection keys :Keypad Display :16x2 Alphanumeric LCD Oven with Temperature Range : 0 – 200 °C (with 1 °C resolution) Software :EasyLogPro v545 **Requirements: USB** Drivers **USB** Cable

PC / Laptop :Window Based (Only 32 Bit operating System Support)