



Description :-

- The Provided Set Is Designed generate an electrostatic charge or voltage, when mechanical stresses are applied to them.
- The most useful materials are, quartz, Rochelle salt and synthetic materials like barium titanate and lead zirconatitanate.
- Among all quartz are most stable and preferred to be used as single cut quartz crystal used in crystal controlled oscillators.
- The stacked forms are likely to be used to measure dynamic pressure, change in acceleration, magnitude of shock and vibration.
- In commercial application synthetic materials piezoelectric elements are preferred, due to lower cost and higher sensitivity.
- These are widely used for the measurement of rapidly varying pressure like vibration and shock.

Specification :-

- Shock Arrangement : Spring type
- Circuit : Peak detector & hold
- Amplifier : Op-amp based
- Test points : Sockets at different places for Signals.
- Display : 3.5 digit digital
- Power supply : Short circuit & overload Protected
- Mains : 230V/50Hz AC
- Introduction:
 - The resistivity measurements of semiconductors can not reveal whether one or two types of carriers are present; or distinguish between them.
 - However, this information can be obtained from Hall Coefficient measurements, which are also basic tools for the determination of carrier density and mobilities in

Note: Specifications are subject to change, Photos shown above are Indicative, Actual Product can Vary.



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conjunctions with resistivity measurement.

Hall Effect experiment consists of the following:

- 1). Hall Probe (Ge. Crystal Mounted on a PCB).
- 2). Electromagnet 10,000 Gauss.
- 3). Power Supply for Electromagnet.
- 4). Constant Current Power supply with Two Digital Meters. Digital Millivoltmeter 0-200mV sensitivity $\pm 0.1\text{mV}$. Auto polarity, Digital milli Ampere-meter 0-20mA, sensitivity $\pm 0.01\text{mA}$.
- 5). Digital Gauss meter with Hall Probe, 20KG.
- 6). Wooden stand for probes.

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