

Product Name :
Seebeck and Peltier Demonstrator for Physics Electric Labs

Product Code :
BSC-TR-17



Description :

Seebeck and Peltier Demonstrator - High Seebeck Coefficient of thermoelectric module. Micro-controller based measurement. Seebeck and Peltier Demonstrator - High Seebeck Coefficient of thermoelectric

module.

Micro-controller based measurement.

Seebeck and Peltier Effect Demonstrator, illustrates the two thermoelectric effects. It is useful in understanding the conversion of thermal energy into electrical energy and vice versa. The thermoelectric module used is of high quality and has advantage over conventional thermocouple in term of its Seebeck and Peltier Coefficients. Thermal emf is generated by heating one arm and cooling the other arm of the thermoelectric module. Seebeck Effect is demonstrated by using a DC motor with a fan. Thermal emf generated and temperatures of the hot and cold arm are simultaneously displayed on LCD. The Peltier Effect is demonstrated by directly supplying current to the module and observing the temperature gradient created on the two sides of the thermoelectric module.

High Seebeck Coefficient of thermoelectric module

Micro-controller based measurement

Digital display of temperature of hot and cold side

Provided with PC based measurement and calculation

e-Manual

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