

## Seebeck and Peltier Demonstrator Nvis 6062



Nvis 6062 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 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.



## Features

- High Seebeck Coefficient of thermoelectric module
- Microcontroller based measurement
- Digital display of temperature of hot and cold side
- Provided with PC based measurement and calculation
- Online product tutorial

## **Scope of Learning**

- Study of the Seebeck Effect
- Study of the Peltier Effect
- Understanding of conversion of energy from one form to another
- Application of thermal energy
- To plot graph between thermo emf generated v/s temperature difference
- Calculation of Seebeck Coefficient

## **Technical Specifications**

Display	:	LCD (16 x 2)
Temperature		
Range	:	0-150°C
Resolution	:	0.1°C
Voltage		
Range	:	0-2000mV
Resolution	:	0.1mV
Glass Beaker	:	250ml
Fan	:	3V
Adaptor Input	:	220 - 240V, 50 / 60Hz
Adaptor Outpu	ut :	5V, 1A
Dimension (m	<b>m)</b> :	W 250 x D 300 x H 20



Software Window

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