



**NV6031 Stefan's Law Trainer** illustrates about the basic phenomenon of thermodynamics. The Trainer gives idea about how energy loss depends on temperature. Stefan's Law states that the power radiated by a body is proportional to the 4<sup>th</sup> power of the absolute temperature. The phenomenon can be studied using a light-bulb filament used as radiating body. The power can be determined from the voltage and current of the filament. The temperature of the filament can be determined indirectly by first computing the electrical resistance and then using a standard resistance versus temperature relationship.

- ▣ **Inbuilt Ammeter and Voltmeter**
- ▣ **Variable DC supply**
- ▣ **Easy to Operate**
- ▣ **Designed with all Safety Precautions**
- ▣ **Extensive Operating Manual**
- ▣ **2 Year warranty**

#### Technical Specifications

<b>Voltmeter</b>	: 0 - 10 V
<b>Ammeter</b>	: 0 - 500 mA
<b>Bulb</b>	:
Type	: (Neon)
<b>Operating Voltage</b>	: 12 V DC
<b>Variable Resistance</b>	: 1 KW
<b>Mains</b>	: 230 V AC $\pm$ 10%, 50Hz
<b>Fuse</b>	: 500 mA

#### Scope of Learning

- Verification of Stefan's law by electrical method.
- Study the temperature dependence of total radiation and hence verify the Stefan's law.

Manufactured by :

**NVIS Technologies**

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