

**Experiment(s):**

## 1. Determination of Boltzmann constant

(For more details, procedure & manual visit: [www.kamaljeeth.net](http://www.kamaljeeth.net))Reference : *Lab Experiments Journal vol-13, No.2, Page-112*

(a)



(b)



(c)



(d)

**Experiment setup consists:**

- Bulb on stand
- Battery eliminator
- Digital current meter
- Connecting wires

**Specifications:**

**a) Bulb on stand**  
Standard 12 V Tungsten filament bulb  
Connector: 2 mm terminals

**b) Power supply battery eliminator**  
Output: Selectable voltage 0, 1.2, 2, 4, 6, 8, 10 and 12 V  
Maximum current: 2 A  
Rated Input: 220 V/50 Hz or 110 V/60 Hz  
Power consumption: < 50W  
Cabinet: Acrylic body, aluminium bottom

**c) Digital current meter**  
Range: 0-2 A  
Resolution: 0.001 A  
Rated Input: 220 V/50 Hz or 110 V/60 Hz  
Power consumption: < 20 W  
Cabinet: Acrylic body, aluminium bottom

**d) Connecting wires**  
Standard 2 mm and 4 mm  
Connecting patch cords as required

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