

55953 Joule's Constant Measurement Setup (by electrical method) is useful to determine the mechanical equivalent of heat. It consists of Calorimeter to isolate water thermally from the surrounding and Measurement Unit with LCD to display Voltage, Current and Time. According to Law of Conservation of Energy, electrical energy provided is equal to heat produced if very less heat is lost through the system. Current is passed in a coil to rise the temperature of known mass of water in a calorimeter. By measuring heat produced corresponding to the provided electrical energy, value of Joule's Constant is determined.

## **Features**

1. Complete setup for measuring Joule's constant

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- 2. Constant current source
- 3. Calorimeter to prevent heat loss
- 4. LCD Display

## Object

1. To determine mechanical equivalent of heat (J) joule's constant by electrical method

## **Technical Specifications**

Power Supply		
Input	:	230V AC 10%, 50Hz
Out put	:	0-10V/0-1.5A
Calorimeter		
Material	:	Copper Container
Volume	:	140 ml
Heater Coil		
Material	:	Nichrome
Resistance	:	50hm
Thermometer		
Least count	:	1°C
Maximum range	:	110°C

Note: Specifications are subject to change.

 

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