

Experiment(s):

1. Determination of acceleration due to gravity
2. Verify Newton's II law of motion

(For more details, procedure & manual visit: www.kamaljeeth.net)

Reference : Lab Experiments Journal vol-11, No.2, Page-124

Experiment setup consists:

- a) Atwood machine
- b) Time interval clock
- c) Electromagnet & weights

Specifications:**a) Atwood machine**

Length: 1.5 m

Pulley: Wheel mounted on low resistance free rolling bearing

Number of sensors: 2

Position adjustment for sensor: Yes

Levelling screw for base: Yes

b) Time interval clock

Range: 0-999.9 sec

Resolution: 0.1 sec

Time measuring: Based on inputs from start sensor and stop sensor

Reset: Automatically on interrupting start sensor

Rated Input: 220 V/50 Hz

or 110 V/60 Hz

Power consumption: <50 W

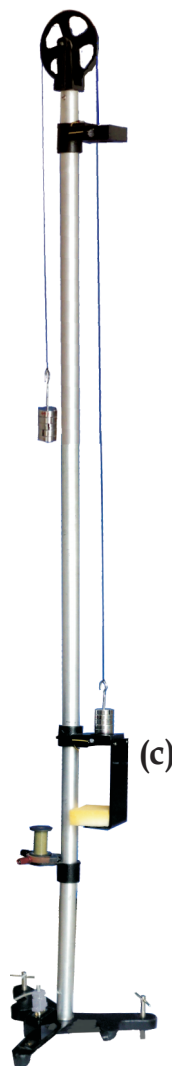
c) Electromagnet & weights

Electromagnet for release of weights from still

Balancing weights: Slotted weights tied end-to-end, pair of 5x50 g



(b)



(a)



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