

## Description of Experimental Set-up

### 1. Digital Balance, CA-44

- Capacity : 40gms
- Readability : 0.0001gms
- Repeatability : (+/-) 0.1mg
- Linearity : (+/-) 0.2mg
- Pan Size : 80mm
- Standard bidirectional RS-232 interface
- Complete with weigh below hook feature suitable for Gouy's measurements

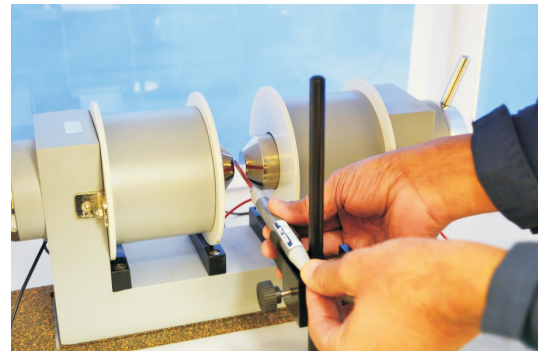


### 2. Samples

- Sample is provided with the step in the form of a long rod:
- Aluminium sample and Glass Tube.

### 3. Electromagnet, Model EMU-50T

- Field Intensity : 9.0KG at 10mm air-gap with tapered pole pieces
- Pole Pieces : 50mm diameter
- Energising Coils : Two, each with a resistance of about 3.0W
- Power Requirement : 0-30Vdc, 4A, if coils are connected in series
- Weight : 33Kg



### 4. Constant Current Power Supply, Model DPS-50

- Current Range : Smoothly adjustable from 0-4A
- Load Regulation : 0.1% for load variation from 0 to max.
- Line Regulation : 0.1% for  $\pm 110\%$  mains variation
- Display :  $3\frac{1}{2}$  digit, 7 segment LED DPM
- Power : 220V  $\pm 10\%$ , 50Hz

## 5. Gaussmeter, Model DGM-202

Resolution : 1 gauss at 2 kilogauss range

Range : 2KG and 20KG

Accuracy :  $\pm 0.5\%$

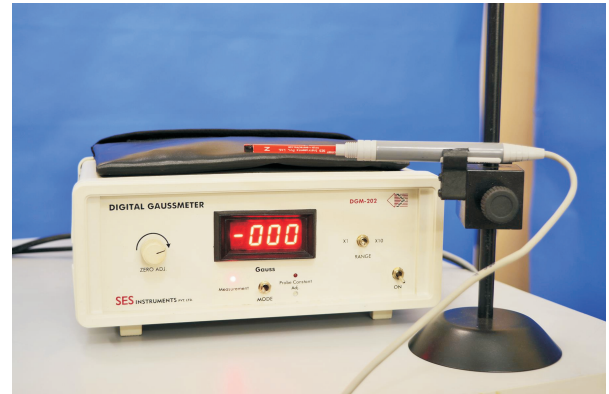
Temperature : Upto 40°C

Display : 3½ digit, 7 segment LED DPM with auto polarity and overflow indication

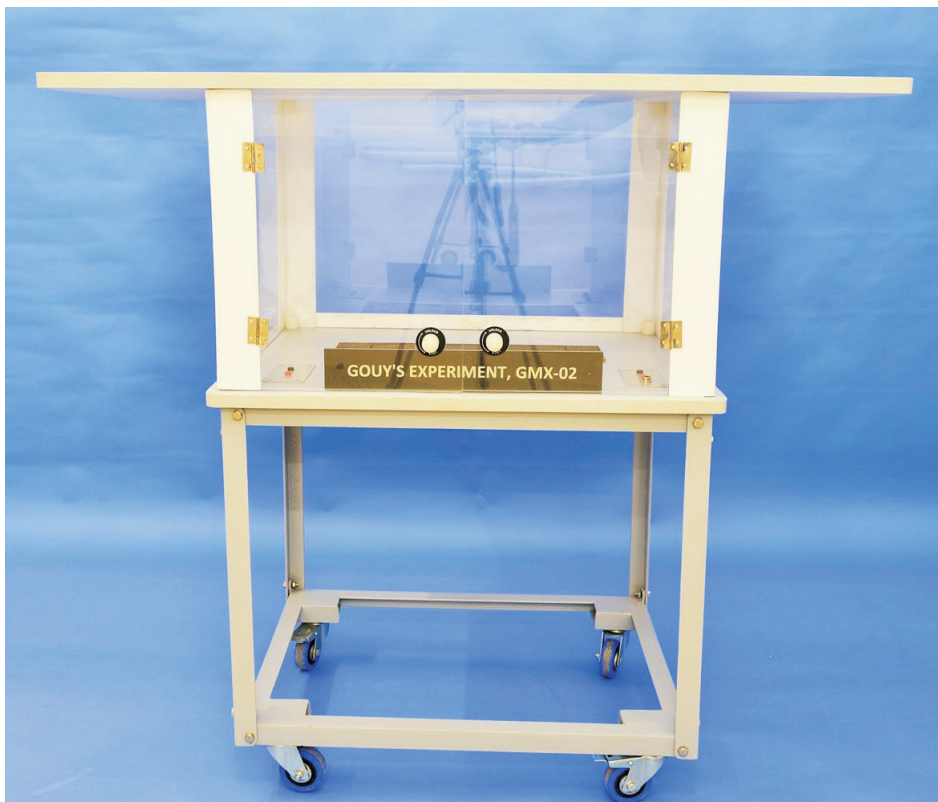
Power : 220V  $\pm 10\%$ , 50Hz

Transducer : Hall Probe-GaAs

Special Feature : Indicates the direction of the magnetic field



## 6. GMX-02 Trolley, Model GMX-TR2



***The setup is complete in itself***