Order Code - 55539B -55539C
Apparatus for the Measurement of Susceptibility of Solids by Gouy's Method

Inthe Gouy's method of susceptibility measurement, the solid sample in the form of a long cylinder (area of cross section A) is hung from the pan of a balance and
is placed such that one end of the sample is between the pole-pieces of the magnet (field H) and the other one is outside the field. The force exerted on the sample by the inhomogeneous magnetic field is obtained by measuring the apparent change (Dm) in the mass of the sample. The susceptibility c is given
by

$$c = 2Dmg/AH^2$$

If the sample is in the form of powder, it is filled in a long nonmagnetic tube which is then suspended from the pan of the balance.

(a) Digital Balance

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 55539 measurement

(b) Sample in the form of a long rod: Aluminium sample and Glass Tube

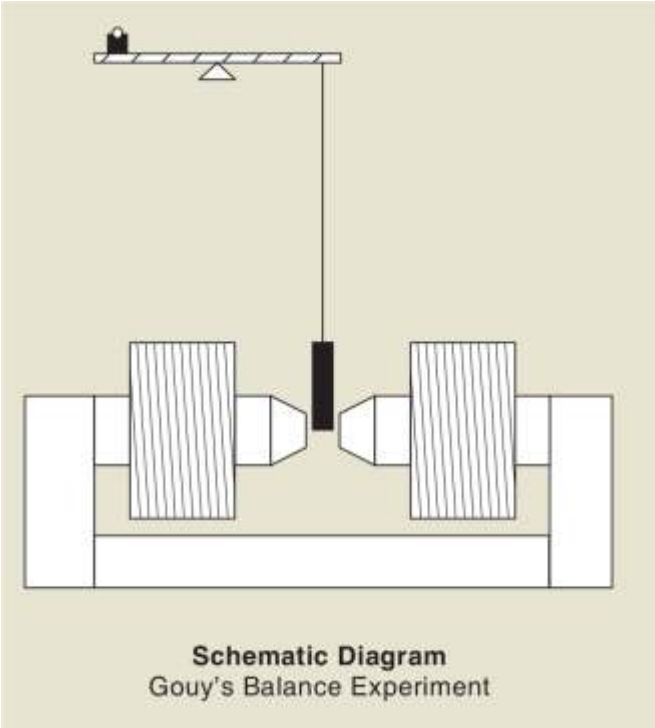
(c) Electromagnet

Pole Pieces	:	75mm tappered to 25mm
Mag. Field	:	20KG mm airgap
Energising Coils	:	Two of approx. 13W each
Power	:	0-90Vdc, 3A, for coils in series 0-45Vdc, 6A, for coils in parallel

(d) Constant Current Power Supply

(e) Gaussmeter

(f) 55539A Trolley
The experiment is complete in all respect.



Schematic Diagram
Gouy's Balance Experiment

Note: Specifications are subject to change.

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