

**VERIFICATION OF THE FORCE RATIO OF
END ON POSITION TO BROAD ON
POSITION OF A BAR MAGNET BY
VIBRATION MAGNETOMETER
(SERLE'S NEEDLE)
OMEGA TYPE ES-411**



OMEGA TYPE ES-411 Experimental Set-up has been designed specifically to verify the force ratio of end on position to broad on position of a bar magnet.

The set-up is complete in all respect and requires no other apparatus.

Practical experience on this set up carries great educative value for Science and Engineering Students.

OBJECT 01 : TO VERIFY THE FORCE RATIO OF END ON POSITION TO BROAD ON POSITION OF A BAR MAGNET.

FEATURES

The Experimental Set-up consists of the following:

01 VIBRATION

MAGNETOMETER : An instrument to measure the period of vibration of a magnetic needle to determine the horizontal magnetic field strength at the needle. This device works on the principle, that whenever a freely suspended magnet in a uniform magnetic field is disturbed from its equilibrium position, it starts vibrating about the mean position

02 WOODEN SCALE : 50 cm

03 STOP WATCH : With START/STOP operation by means of toggle switch & RESET by a push button switch. OMEGATYPE DSC-602 It has a range of 999.9 seconds with resolution of 0.1 seconds and accuracy of $\pm 0.01\%$ (Quartz controlled). Display is thorough 4 no's of 12.5mm bright Seven Segment Displays and working voltage of the unit is 230V AC $\pm 10\%$ AT50Hz.

04 BAR MAGNETS : 2 inch bar magnet, 2 Nos.

05 Strongly supported by detailed Operating Instructions, giving details of Object, Theory, Design procedures, Report Suggestions and Book References.

We are committed to the continuous development of our products, and therefore reserve the right to amend specifications without prior notice.

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