

OMEGA TYPE ES-247

OMEGA TYPE ES-247 Experimental Set Up has been designed specifically for the Measurement of magnetic susceptibility of paramagnetic solution by Quincke's method. Also find the ionic molecular susceptibility of the ion and magnetic moment of the ion in terms of Bohr magnetron. The set-up consists of Electromagnet, Constant Current Power supply (0 - 4Amp), Digital Gauss meter with Hall probe, Traveling microscope, Quincke's tube with stand, sample (FeCl3).

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

Measurement of magnetic susceptibility of paramagnetic solution by Quincke's method. Also find the ionic molecular susceptibility of the ion and magnetic moment of the ion in terms of Bohr magnetron.

FEATURES

The complete Experimental Set-up consists of the following:

01.	Electromagnet		The electromagnet have the most widely used 'U' shaped softiron yoke. The soft iron is of a special quality, structurally uniform, well machined and finished to meet the rigid standards.			
	SPECIFICATIONS				C C	
	Field intensity	:	7.5 KG at 10mm air-gap which	h fla	at pole pieces.	
	Polepieces	:	50mm diameter.			
	Energising coils	:	Two, each a resistance of abou	ıt 3.0	0 ohm.	
Power requirement :		:	0-30V dc, 4A, its coils are connected in series.			
02.	Constant current	:	Current range	:	0-4 Amp.	
	power supply		Load regulation	:	Better than 0.5% of the highest	
	Omega type ccp-30/4		(No Load to Full Load)		specified output current.	
	8 91 1		Line regulation	:	Better than $\pm 2\%$ of the specified output (For $\pm 10\%$ Mains	
			C		Variation) current.	
			Metering	:	3 ¹ / ₂ digit 7 segment LED DPM.	
03.	Digital gauss meter	:	e	all E	ffect in semiconductor. The small Hall Voltage is amplified	
	with hall probe		1 1 1		so that millivoltmeter connected at the output of the amplifier	
	Omega type DGM-020		can be calibrated directly in m			
SPECIFICATIONS			5	U		
Range		:	0.2KG & 0-20KG			
Resolution		:	1G at 0-2KG range			
Accuracy		:	±0.5%.			
Special Feature		:	Indicate the direction of the magnetic field.			
04. Travelling microscope		:	T-shape model with horizontal and vertical scales. The base is fitted with three levelling screws.			
05. Quin Cke's tube with stand			· · ·			
	Sample - Fecl3					
	Hall probe wooden stand					
	Hall probe with Plastic Box	x				

* Weight: 52 Kg. (Approx.)

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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.

OMEGA ELECTRONICS

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