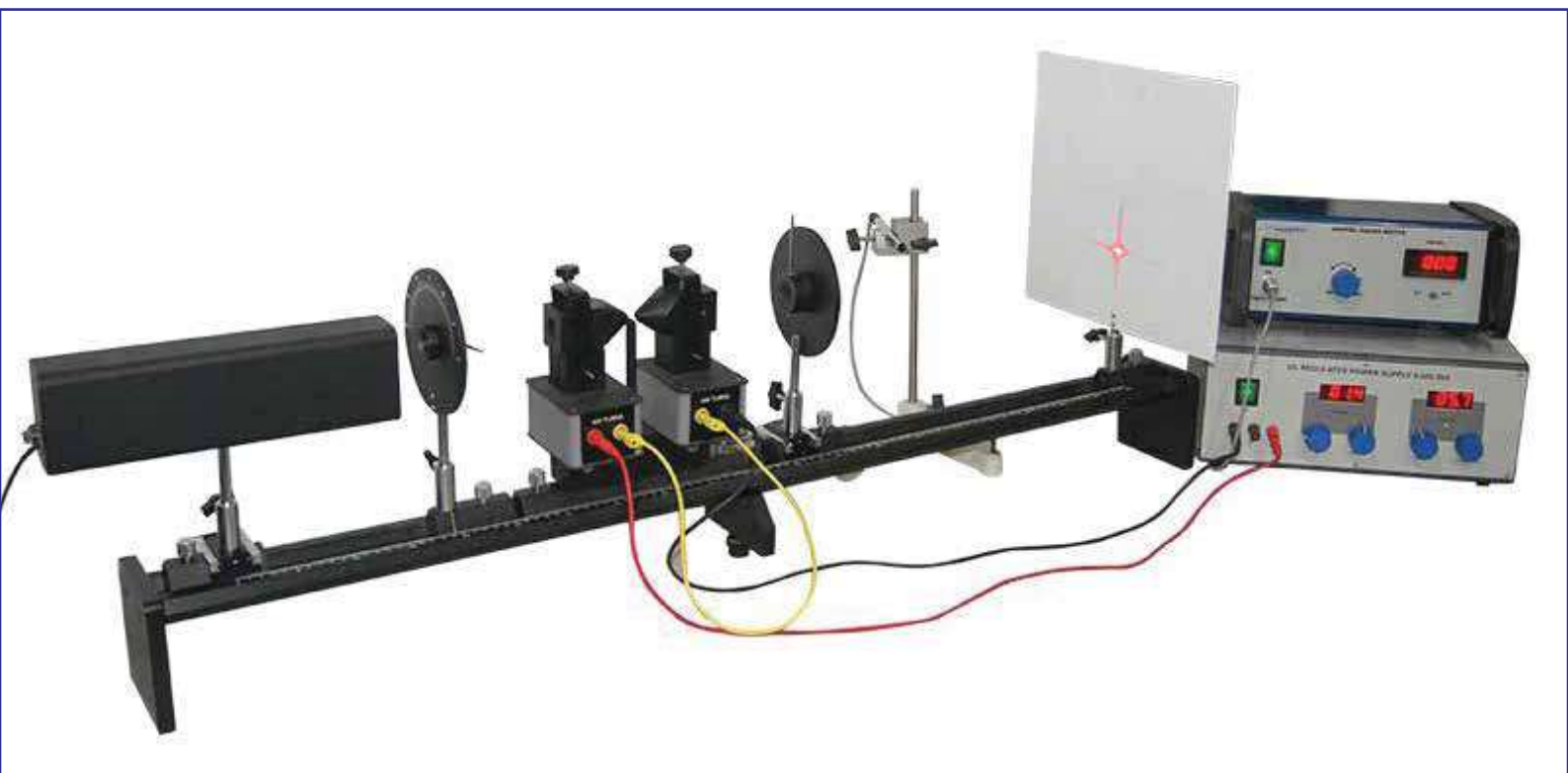


FARADAY EFFECT

FE-3069



EPC / PRODUCTS / APPLICATION / SOFTWARE / ACCESSORIES / CONSUMABLES / SERVICES

Analytical Technologies Limited

An ISO 9001 Certified Company

www.analyticalgroup.net

▶▶ Principle and Working :

If a transparent isotropic material is placed in a strong magnetic field and linearly polarized light is transmitted in the direction of the magnetic field, the plane of polarization of linearly polarized light rotates by an angle. In the present setup the optical activity of flint glass is investigated in a magnetic field. The angle of rotation of plane polarized light is proportional to the length (L) and magnetic field (B).

$$\Delta\theta = V.L.B$$

Where, V-Verdet's constant

The magnetic field is measured using Gauss meter with axial probe.

Item Name	ATL-058	ATL-058A	ATL-063
Flint glass	1	1	1
Electromagnet unit	1	1	1
Polariser / Analyser	2	2	2
Translucent screen	1	1	1
Optical bench, 1 m	1	1	1
Power supply for halogen lamp			1
Convex lens in holder f=+100mm			1
Convex lens in holder f=+200mm			1
Power supply for electromagnet	1	1	1
Digital gauss meter with hall probe	1	1	1
Stand rod, 25 cm	1	1	1
Boss-head square	1	1	1
Plug lead 100 cm, Black	2	2	2
Plug lead 100 cm, Red	1	1	1
Plug lead 50 cm, Yellow	1	1	1
Transverse saddle	2	2	2
He-Ne laser	1		
Diode laser		1	
Stand base	1	1	1
Halogen lamp in housing			1
Set of six filter			1
Plug lead 100cm, yellow			2

Halogen Light Source ATL-840



SPECIFICATIONS	
Halogen bulb	12V, 50W
Operating voltage	12V, 5A
Safety sockets	4mm
Rod dia	10mm

Diode Laser ATL-829



SPECIFICATIONS	
Peak Wavelength	635nm
Operating voltage	5V DC
Operating current	250mA
Optical power	> 0.4-0.8mW
Laser product	Class II
Operating temp.	0 - 40°C
Storage temp.	-10 to 50°C

Power Supply 12V AC/DC ATL-080



SPECIFICATIONS	
Output	2,3,4,5,6,8,10 & 12VAC full wave rectified, unsmoothed & unregulated D.C.
Overload	Resettable thermal trip.
Input	230 V AC,50 Hz

Digital Gauss Meter ATL-20



SPECIFICATIONS	
Range	200 G & 2 kG
Resolution	1G at 0 - 200G
Power	220 V, 50 Hz AC
Hall probe	InAs

Polarizer / Analyzer ATL-801



SPECIFICATIONS	
Angle	Adjustable (0°-90°)
Aperture	21mm dia.
Frame	130mm dia., to avoids scattering of lights
Rod	10 mm dia.

Electromagnet Unit ATL-261



SPECIFICATIONS	
Coils	300 turns.
Current	10Amp (Max.)
Wire	18SWG, Cu.
Connenction	4mm safety socket.
U Core	150x130mm(LxH), 40x40mm cross section
Pole Piece	Length=80mm
Material	Ferromagnetic.

Set of Six Filter ATL-65



SPECIFICATIONS	
Color	Wave length
Red	625 - 635 nm
Orange	575 - 585 nm
Yellow (dark)	545 - 555 nm
Yellow (light)	505 - 515 nm
Green	515 - 525 nm
Blue	465 - 475 nm

Transverse Saddle ATL-436



SPECIFICATIONS	
Material	Aluminium
Locking	Spring loaded
Motion	X-Y axis
Holder	10mm dia.

Translucent Screen ATL-016



SPECIFICATIONS	
Material	Translucent, Acrylic.
Size	300 x 300 mm
Rod	10 mm diameter

Convex Lens in Holder



SPECIFICATIONS	
Focal Length	200mm (SL756)
Focal Length	100mm (SL754)
Diameter of Lens	50 mm
Frame Diameter	130 mm to avoids scattering of lights
Rod Diameter	10 mm

▶▶ **HPLC Servicing, Validation, Trainings and Preventive Maintenance :**

- HPLC Servicing :HPLC Servicing : We have team of service engineers who can attend to any make of HPLC promptly @the most affordable cost.
- Trainings :We also take up preventive Maintenance to reduce downtime of HPLC's Trainings.
- AMC's/CMC :AMC's/CMC :We offer user training both in-House and at customer sites on PLC principles, operations, troubleshooting.
- Validations :Validations :We have protocols for carrying out periodic Validations as per GLP/ GMP/U SFDA norms.
- Instruments :Instruments :We offer instruments / Renting Services Modules like pumps, detector etc. on Rent.



▶▶ **About Analytical Technologies**

Analytical Technologies is synonymous for offering technologies for doing analysis and is the Fastest Growing Global Brand having presence in at least 96 countries across the globe. Analytical Technologies Limited is an ISO :9001 Certified Company engaged in Designing, Manufacturing, Marketing & providing Services for the Analytical, Chromatography, Spectroscopy, Bio Technology, Bio Medical, Clinical Diagnostics, Material Science & General Laboratory Instrumentation. Analytical Technologies, India has across the Country operations with at least 4 Regional Offices, 6 Branch Offices & Service Centers. Distributors & Channel partners worldwide.

▶▶ **Our Products & Technologies**

						
UV/VIS Spectro 2060+ Double Beam	FTIR	Gas Chromatograph 3000	Gas Chromatograph 2979 Plus	Flash Chromatograph	Atomic Absorption Spectrophotometer	Liquid Partical Counter
						
Optical Emission Spectrophotometer	DSC/TGA	NOVA 2020 plus Automated Bio Chemistry Analyzer	HEMA 2020 Hematology Analyzer	Micro Plate Reader/Washer	URINOVA 2800 Urine Analyzer	Total Organic Carbon
						
Fully Automated CLIA	NOVA Basic Semi-Auto Chemistry Analyzer	PCR/Gradient PCR/ RTPCR	Blood Gas Analyzer	Random access Analyzer for immunoassay Proteins & clinical chemistry	Semen Analyzer	Water purification system

▶▶ **Regulatory compliances**



▶▶ **Corporate Social Responsibility**

Analytical Foundation is a Nonprofit Organization (NGO) found for the purpose of:



TM

**Analytical
Foundation**

1. Research & Innovation Scientist's awards / QC Professional Award : Quality life is possible by innovation only and the innovation is possible by research only, hence ANALYTICAL FOUNDATION is committed to identify such personalities for their contributions across various field of Science and Technology and awarding them yearly. To participate for award, send us your details of research / testing / publication at info@analyticalfoundation.org

2. Improving quality of life by offering YOGA Training courses, Work shops / Seminars etc.

3. ANALYTICAL FOUNDATION aims to DETOXYFY human minds, souls and body by means of Yoga, Meditation, Ayurveda, Health Care, Awards, Media, Events, Camps etc.

▶▶ **Reach us @**



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