







EPCC / PRODUCTS / APPLICATION / SOFTWARE / ACCESSORIES / CONSUMABLES / SERVICES

Analytical Technologies Limited

An ISO 9001 Certified Company

www.analyticalgroup.net



•• Key Features :

- Micro Controller Based.
- Alphanumeric LCD Display with back light for day & night operation
- User Friendly keyboard & display interaction
- Bull-in 24 column printer for hard copy of the report
- Autozero facility
- Easy calibration check
- Computer Interface provided
- Can be up-graded to RPM Measurement by ripple technology & magnetic vibration sensing & Phono-Accelerometric device.
- Work on 12V battery and 230 VAC

•• Operating Principle :

ATL's Smoke Meter model SM-3111 is based on the principle of absorption of light, which is indicative of the quality of smoke. A Green LED driven by a pulsating constant current source, emits a light beam having peak spectral intensity between 550 to 570nm wave length. The beam passes through a smoke cell and on to a silicon photodetector which continuously senses the intensity of light incident on it, and converts it into a electrical signal, which is further processes by precise signal handling circuits. This all solid-state design ensures high stability. The output of this stage is given to a microprocessor for further processing to convert it into suitable units including percentage opacity and absorption coefficient (K)

Smoke sampling is done on free-acceleration principle. Smoke is measured in smoke cell which has a effe tive length of 0.4 meter.

Optional Ripple Sensor for RPM & Magnetic vibration sensing

ATL's smoke meter modern SM-3111 has the facility of an additional sensor for measuring RPM of diesel Vehicles. The smart measuring Pprinciple is based on the analysis of ripple balance of the system supply, a characteristic of all automotive alternators.

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The measuring range is from 400 to 9990 rpm. The ripple Sensor.

Accessories:

- ATL's Smokemeter model SM-3111 is supplied with following accessories
- Calibration Filter
- Sampling Probe
- Ruber hose 4 meter long
- Operations manual



- Mainscord
- Printer Roll
- Instrument Cover
- USBCable
- Oil Temperature Probe
- RPM Cable with 6mm piezo sensor
- Remote Display
- Battery clamp with cable

>> Technical Specifications :

Model Number :	SM-3111
Type of Smoke meter :	Partial Flo
Display Indication :	Light Absorption Coeffecient (K) and Percentage Opacity
Display Range :	0 to 9.99 m-1
Opacity in HSU :	0 to 99.99%
Scale Resolution :	0.01 m-1
Linearity :	0.1 m-1
Drift :	Zero 0.00 m-1
Repeatability :	Span 0.1 m-1
Light Source Details :	0.1 m-1
Response time :	5 mm clear green LED
Warm up time :	0.3 Seconds
Operating :	3 minutes
Temp. range :	5 to 50°C
Power requirement :	230 VAC+/-10% / 50 Hz. 175 W / 12 VDC + 5%, 40W
Weight :	23 Kg (Approx)
Dimensions :	47.5 (W) x 47.5 (D) x 26 (H) ems
Serial Communication :	Rs. 232
Oil Temperature :	0-150°C
Scale Resolution :	1°C
RPM (Piezo) :	300 to 9999 RPM
Scale Resolution :	1 RPM

>> Optional :

RPM (Ripple) Scale Resolution Auto Calibration Facility Magnetic RPM Phono-Accelerometric device

400 to 9990 RPM 10 RPM 300 to 9990 RPM

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HPLC Servicing, Validation, Trainings and Preventive Maintenance :

HPLC Servicin	g: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 Maintenace 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 HPLC principles, operations, trouble-
	shooting.
Validations	:Validations :We have protocols for carrying out periodic Validations as per GLP/GMP/USFDA norms.
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Instruments :Instruments :We offer instruments/Renting Services Modules like pumps, detector etc. on Rent.

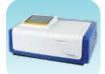




About Analytical Technologies

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 global. Analytical Technologies Limited is an ISO:9001 Certified Company engaged in Designing, Manufaturing, 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







Optical Emission Spectrophotometer



DSC/TGA



Optima Gas Chromatograph 3007



Semi Auto Bio Chemistry Analyzer





2979 Plus

HEMA 2062 Hematology





Atomic Absorption

Spectrophotometer

URINOVA 2800

Urine Analyzer



Liquid Partical Counter



Total Organic Carbon 3800





Fully Automated CLIA

NOVA-2100 Chemistry Analyzer

PCR/Gradient PCR/ RTPCR

TOC Analyzer

Laser Particle Size Analyzer

Ion Chromatograph

Water purification system



Flash Chromatograph



Micro Plate Reader/Washer









Regulatory compliances



Corporate Social Responsibility

Foundation

Analytical Foundation is a nonprofit organization (NGO) found for the purpose of:

1.Research & Innovation Scientist's awards/QC Professional Award : Quality life is TΜ possible by innovation only and the innovation is possible by research only, hence ANALYTICAL FOUNDATION is committed to identify such personallities 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 Analytical

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

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



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