

# ALPC - 3024

## Liquid Partical Counter



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

**Analytical Technologies Limited**

An ISO 9001 Certified Company

[www.analyticalgroup.net](http://www.analyticalgroup.net)

## ►► Product Introduction

The portable particle counter adopts the counting principle of the light resistance (shading) method specified by the International Hydraulic Standards Committee, and is specially used for the rapid detection device of the oil pollution level on the spot.

It has the advantages of small size, light weight, fast detection speed, high precision, good repeatability, etc., and can work under harsh conditions such as high temperature and high pressure.

The built-in micro-water sensor and temperature sensor can detect the water content and oil temperature at the same time as the pollution detection. It is suitable for engine oil, gear oil, transformer oil (ie insulating oil), hydraulic oil, lubricating oil, synthetic oil and other oils. It can be widely used in aerospace, petrochemical, transportation, port, iron and steel metallurgy, automobile manufacturing and other fields.

## ►► Features

- Adopts the principle of photoresist (shading) method, using high-precision laser sensor, small size, high precision and stable performance.
- Suitable for laboratory or on-site testing, and can also be equipped with a pressure reducing device for online high pressure measurement, real-time monitoring of particle pollution in the oil system
- It can be connected to an external pressure chamber to form positive/negative pressure to realize the detection of high-viscosity samples and sample degassing
- Built-in data analysis system, can display the real data of each channel particle size and automatically determine the sample level
- The pipeline adopts 316L and PTFE materials to meet the testing of various organic solvents and oils
- With volume flushing and duration flushing modes, it is convenient for users to operate and maintain the equipment
- Built-in ISO4406, NAS1638, SAE4059, GJB420A, GJB420B, GOCT17216, GB/T14039 and other particle pollution grade standards
- Built-in calibration function, can be calibrated according to GB/T21540, ISO4402, GB/T18854 and other related standards
- Built-in data analysis system, can automatically determine the sample level according to the standard, with automatic data processing and printing functions

- Any alarm level can be set to achieve pollution or cleanliness detection
- Built-in water sensor and temperature sensor
- English input, one-key switching, with preset, input, modification, and storage functions, convenient and quick operation
- Large storage, you can choose to store in the instrument's internal or external storage devices
- Embedded design, high-strength shell, easy to carry, suitable for all kinds of construction machinery

## ►► Technical Parameters

- Light source: A semiconductor laser
- Flow rate range: 5-60mL/min
- Offline detect sample viscosity:  $\leq 100\text{cSt}$ , Optional pressure chamber for high viscosity
- Online pressure detection: 0.1-0.6Mpa (Optional pressure reducing device can reach the highest pressure 40Mpa)
- Particle size range: 1-500 $\mu\text{m}$  (Choose different types of sensors)
- Connector: USB connector, power connector
- Data storage: 1000 sets of data storage space, and support USB storage
- Sensitivity: 0.8 $\mu\text{m}$  or 4 $\mu\text{m}$  (c)
- Limit coincidence error: 40000 grains/ml
- Counting volume: 1-999ml
- Counting accuracy: error less than  $\pm 10\%$
- Protection level: IP67 (protective box)
- Test time interval: 1 second-24 hours
- Test sample temperature: 0-80°C
- Water activity: 0-1aw ( $\pm 0.05\text{aw}$ )
- Water content: 0-360ppm ( $\pm 10\%$ )
- Working temperature: -20-60°C
- Power supply: AC 220V $\pm 10\%$ , 50/60Hz or DC12-40V
- Weight: 5.5kg
- Volume: 365×295×170mm

## 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 HPLC principles, operations, trouble-shooting.

**Validations** :Validations :We have protocols for carrying out periodic Validations as per GLP/GMP/USFDA norms.

**Instruments** :Instruments :We offer instruments/Renting Services Modules like pumps,detector etc. on Rent.



## About Analytical Technologies

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## Our Products & Technologies



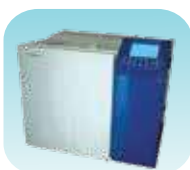
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Ion Chromatograph



Water purification  
system



## Regulatory compliances



## Corporate Social Responsibility

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



**Analytical**  
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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](mailto: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.



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