

# DPA - 3721

Diesel Particulate Analyzer



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**Analytical Technologies Limited**

An ISO 9001 Certified Company

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▶▶ **DPA-3721 Real-time Diesel Particulate Analyzer:**

Targeted engine maintenance can drastically reduce Diesel Particulate Matter (DPM)

▶▶ **Features :**

- Instant measurement of fine particulate levels in diesel exhaust
- Easy to use, on-screen prompts, minimal (<10min) training required
- Designed to handle the rugged demands of mining sites
- Auto-generates & displays Stall or Free Acceleration test results

▶▶ **Reliable, Effective:**

The DPA-3721 is the tool that mechanical and workshop staff need in order to reliably identify high DPA-3721 emitters, and to validate the effectiveness of emissions-related maintenance.

▶▶ **Accurate Measurement:**

The rugged, practical and easily operated DPA-3721 analysis instrument was specifically designed for measuring particulate concentrations in the exhaust of mining engines. Using advanced laser light-scattering technology, the ATL DPA-3721 unit can accurately and instantly measure particulate mass concentrations in the exhaust from all engine types.

▶▶ **Simple Operation:**

The instrument is highly automated, with only a single press-button required to initiate and run a test. It is designed for ease of use by maintenance personnel as an everyday workshop tool, after only minimal training, but retains the flexibility to support more complex research or investigative activities.

Routine maintenance of the ATL DPA-3721 unit is limited to checking and periodically replacing one disposable filter.



▶▶ **Rapid Results:**

The ATL DPA-3721 has been pre-programmed to measure particulate mass emissions during a Stall Test or Free Acceleration Test in as little as just one minute. Internal software guides the operator through these standardized DPA-3721 test procedures, collects and processes the test data, and automatically produces an overall result immediately once the test is done.

►► **Mechanical Repair Cost Reductions:**

- The level of particulates in diesel exhaust is a very important indicator of engine and injector system health. Accordingly, reliable identification of high polluters and validation of repair effectiveness is essential.

Traditional methods, such as measurement of smoke opacity, have been shown to be significantly inferior to the laser light scattering technologies employed in the ATL DPA-3721. The ATL DPA-3721 unit can detect and measure concentrations of particulates with a nominal diameter down to less than 100 nm (0.0001mm) Recent advances in mine safety and occupational hygiene have resulted in a large number of diesel vehicles and plant being fitted with particle filters. These filters, when working correctly, greatly reduce particle emissions, so it is essential that their efficiency can be periodically checked. The ATL DPA-3721 unit provides the capability to perform these checks quickly and accurately.

►► **Specification:**

Measurement Method:	Laser light-scattering photometry
Particle Size Range:	<100nm to 10 microns
Particle Concentration Range:	0.1 to 420 mg/m3 (Elemental Carbon)
Resolution:	0.1 mg/m3
Sample Flow:	2.0 lpm (nominal)
Range selection:	Auto-Ranging
Zero Check:	Auto-Zero prior to every test PC
Connection:	USB
Operating Voltage:	12V DC (via external 240/12V adapter), or internal NiMH batt.
Battery Operation:	3 hrs. continuous operation per charge Operating Current 2.0 amp (max)
Analyzer Wight:	8.8 lbs. (approx.)
Supplied Accessories:	Tail pipe probe, High-temperature sample hose, 5 spare filters & Carry case w/ Wheels
Battery Charger:	(100 - 240 V, 50/60 Hz), Calibration-Check Plug,



Rugged, compact design

## Regulatory compliances



## Corporate Social Responsibility

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



# 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](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.

## Reach us @



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