DIESEL PARTICULATE MATTER MONITORING

Real-time monitoring solutions from personal monitors and field testers to powerful research-grade instrumentation.
JUNE 2025

kenelec scientific

www.kenelec.com.au

DIESEL PARTICULATE MATTER

Kenelec Scientific offer real-time measurement solutions for diesel particulate matter (DPM) including personal monitoring, workplace monitoring, testing engine exhaust emissions and research applications.

DPM - a component of diesel exhaust - is found in elevated levels in environments and industries which use motor vehicles, power generators or other diesel engine exhaust. Nearly all DPM is respirable in size and can cause **adverse heath effects** from mild eye and respiratory irritation, through to an increased risk of lung cancer in workers exposed to high concentrations over long periods.

Real-time monitoring can assist limiting worker exposure to DPM by immediately alerting workers to elevated levels so that corrective actions can be implemented quickly.

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FIELD TESTING

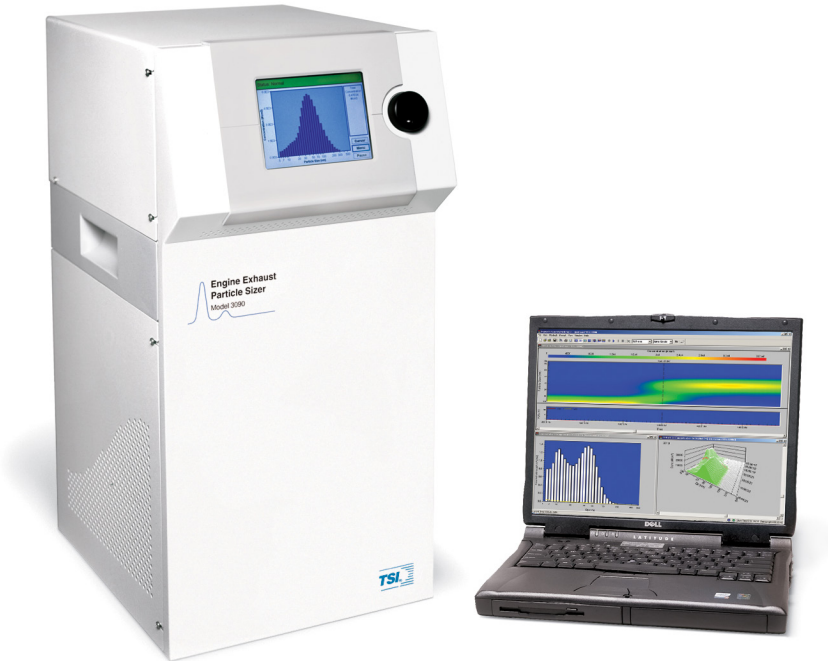
TSI 3795 Nanoparticle Emission Tester (NPET)

A portable, easy to use, cost effective instrument capable of measuring total solid (non-volatile) particle number concentration from combustion sources, including diesel engine exhaust. Featuring a robust, user-friendly design, the NPET is used by researchers, regulatory inspectors and maintenance personnel alike.

RESEARCH

TSI 3090 EEPS™ Engine Exhaust Particle Sizer Spectrometer

The EEPS™ measures the size distribution of engine-exhaust particle emissions in the range from 5.6 to 560 nm with the fastest time resolution available. Users can visualise and study the dynamic behaviour of particle emissions that occur during transient test cycles, during the first few seconds of a cold start, or during regeneration of a particle trap or diesel particulate filter.



PERSONAL MONITORING

TSI AM520/AM520i SidePak™ Personal Aerosol Monitor

A small, portable, battery-operated, datalogging, light-scattering laser photometer, the AM520 display concentration readings of DPM within a worker's breathing zone. It is the perfect solution for real-time, personal aerosol sampling in a variety of workplace environments including mining, construction, transportation, confined spaces and general industry where air quality could be an issue.

Also available with intrinsic safety via the AM520i.

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AM520i - intrinsically safe design for use in explosive environments.

WORKPLACE MONITORING

TSI 8533 DustTrak™ DRX Desktop Aerosol Monitor

The real-time dust monitor DustTrak™ DRX Aerosol Monitor 8533 can simultaneously measure both mass and size fraction – no other monitor can do both. The DustTrak DRX desktop monitor is a battery operated, data-logging, light-scattering laser photometers that gives you real-time aerosol mass readings. It uses a sheath air system that isolates the aerosol in the optics chamber to keep the optics clean for improved reliability and low maintenance.

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KENELEC SCIENTIFIC

Our company:

Established in 1962, Kenelec Scientific is one of Australia's leading scientific and environmental technology companies. Based in Melbourne, with distributors located throughout Australia and New Zealand, we are industry leaders in the supply of globally sourced, latest generation technologies at competitive prices.

Our services:

Sales
Buy the latest equipment from some of the most trusted brands in the industry.

Rental
Short and long term hire available on an extensive range of instruments.

Calibration
Professional calibration of your instruments in our accredited laboratories.

Validation
Wide range of validation services to ensure compliance with regulations.

Service & Repairs
Local after-sales service and support from our experienced technicians.

Education
Product education and support available in-house, onsite or online.

Financing
Secure your equipment without relying on up-front capital funding.

More solutions:

In addition to the options in this brochure, we also offer a number of other specialised monitoring solutions, as well as being able to build a system to meet your exact requirements. Get in touch or visit our website for more information.

Have you considered renting?

Renting can be a cost-effective solution to ensure you have the tools you need, when you need them.

As one of Australia's leading specialist suppliers of testing and monitoring equipment, Kenelec Scientific stock an extensive range of instruments with no minimum hire period to help your business perform at its best without the financial stress of needing to buy.

All of our units are regularly checked and calibrated by our experienced technicians to ensure accurate and reliable performance, and we are constantly updating our range so you have access to the best equipment in the industry.

We also offer up to 20% off our standard rental rates for instruments you rent while your own unit is being calibrated, and for equipment that is hired long-term.

Look for the symbol:

NATA

bsi. ISO 9001 Quality Management
FS 605267

We look forward to working with you.

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