DUST & AEROSOL MONITORING SYSTEMS

Selection guide for customising your very own dust, smoke, diesel or other aerosol monitoring system.
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kenelec
scientific

CUSTOMISED SYSTEMS THAT MEET YOUR SPECIFIC MONITORING NEEDS

Kenelec Scientific understands that no site is ever the same. To assist in meeting your monitoring requirements, we've created a step-by-step guide to customising your very own dust, smoke, diesel or other aerosol monitoring system based around the DustTrak range of aerosol monitors from TSI.

1. CHOOSE YOUR AEROSOL MONITOR

☐ **TSI 8530 DUSTTRAK II**
- Measures PM1, PM2.5, PM4 and PM10 **one at a time**
- 0.1µm to 10µm particle size range
- 0.001 to 400mg/m³ dust concentration

☐ **TSI 8533 DUSTTRAK DRX**
- Measures PM1, PM2.5, PM4, PM10 and PMTotal **simultaneously**
- 0.1µm to 15µm particle size range
- 0.001 to 150mg/m³ dust concentration

2. ADD AN AUTOZERO MODULE

☑ **TSI 801690 AutoZero Module**
- Required for all environmental monitoring systems
- Eliminates zero drift when sampling over extended periods
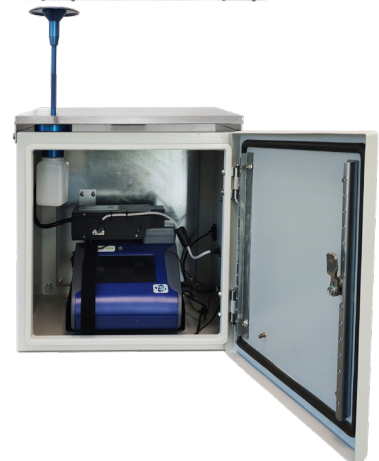
TSI 801690 for 8535 / 8537 enclosure

NEED AN ENCLOSURE?

☐ **TSI 8535 DUSTTRAK ENVIRONMENTAL ENCLOSURE**
- Portable system
- Weatherproof Pelican enclosure

☐ **BOM 8537 DUSTTRAK ENVIRONMENTAL ENCLOSURE**
- Fixed system
- Weatherproof metal enclosure

GOT A QUESTION?

Get in touch with our Sales team to discuss your requirements.

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3. CHOOSE A MOUNTING OPTION

☐ **TRIPOD**
- For portable systems
- Attaches to base of 8535 enclosure for flexible positioning

☐ **POLE MOUNTING KIT**
- For fixed systems
- Includes bracket, hardware and mounting strap to attach the 8537 enclosure to a fixed pole ranging 4" to 6" (100-150mm) in diameter (pole not included)

4. CHOOSE POWER OPTION

☐ **MAINS POWER**
- 5m cable length
- Can be used with a weather-proof power adaptor

☐ **BATTERY SYSTEM**
- Includes 4x batteries and charger
- Allows operation for up to 48 hours before swapover is required

☐ **SOLAR SYSTEM**
- Includes panels, battery, battery case and cabling
- Provides ongoing power for 24/7 operation

5. CHOOSE DATA OPTION

☐ **USB ACCESS**
- 60,000 point data logging can be uploaded via USB

☐ **REMOTE DATA ACCESS**
- Modem, logger and integration package to allow 24/7 access to data via the internet

☐ **MOBILE APP**
- Combined with wireless router and antenna, the mobile app allows you to quickly download, review and send logged data

6. HUMID OR FOGGY ENVIRONMENT?

☐ **TSI HEATED INLET SAMPLE CONDITIONER**
- Removes humidity and water vapour from the sample, reducing elevated measurements

TSI 801851 for 8535/8537 enclosure

7. WEATHER MONITORING REQUIRED?

VAISALA WXT530 SERIES WEATHER TRANSMITTERS

- Choose a transmitter that is right for your monitoring needs:

  ☐ WXT531 - Rainfall

  ☐ WXT532 - Wind speed, wind direction

  ☐ WXT533 - Rainfall, wind speed, wind direction

  ☐ WXT534 - Air pressure, temperature, humidity

  ☐ WXT535 - Air pressure, temperature, humidity, rainfall

  ☐ WXT536 - Air pressure, temperature, humidity, rainfall, wind speed, wind direction

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 dust monitoring solutions

In addition to the systems in this selection guide, we also offer both off-the-shelf dust monitoring solutions as well as fully customised systems designed to meet your requirements:

KENSENSE SYSTEM
Part of our customised monitoring system range, the KenSense is a lightweight, portable measurement solution with the capacity to configure multiple channels of measurement for dust, aerosol and gas monitoring.

HANDHELD DUSTTRAK
Monitoring on the go? The portable design allows point source location monitoring of dust, fumes, smoke and other airborne contaminants.

DUST DEPOSITION GAUGES
Dust deposition gauges offer a low-cost, reliable way of undertaking simple non real-time dust monitoring. Standard and directional models available.

We look forward to working with you.

NATA

bsi. ISO 9001 Quality Management
FS 605267

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