

# DUST & AEROSOL MONITORING SYSTEMS

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

MAY 2019



# 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, PM10 and PMTotal one at a time
- 100nm to 10µm particle size range
- 0.001 to 400mg/m<sup>3</sup> dust concentration

### TSI 8533 DUSTTRAK DRX

- Measures PM1, PM2.5, PM4, PM10 and PMTotal simultaneously
- 100nm to 15µm particle size range
- 0.001 to 150mg/m<sup>3</sup> dust concentration



### TSI DUSTTRAK ENVIRONMENTAL PM2.5

- Measures PM2.5
- 0.001 to 400mg/m<sup>3</sup> dust concentration
- Compact, weather-proof enclosure

### TSI DUSTTRAK ENVIRONMENTAL PM10

- Measures PM10
- 0.001 to 400mg/m<sup>3</sup> dust concentration
- Compact, weather-proof enclosure

### TSI DUSTTRAK ENVIRONMENTAL DRX

- Measures PM1, PM2.5, PM4, PM10 and PMTotal simultaneously
- 0.001 to 150mg/m<sup>3</sup> dust concentration
- Compact, weather-proof enclosure

## DUSTTRAK II / DRX ENCLOSURE OPTIONS



### TSI 8535 DUSTTRAK ENVIRONMENTAL ENCLOSURE

- Portable system
- Weatherproof Pelican enclosure



### TSI 8537 DUSTTRAK ENVIRONMENTAL ENCLOSURE

- Fixed system
- Weatherproof metal enclosure

## 2. ADD AN AUTOZERO MODULE

### TSI 801690 AutoZero Module

- Required for all environmental monitoring systems
- Eliminates zero drift when sampling over extended periods
- Comes built-in with the DTE system



TSI 801690 for 8535 / 8537 enclosure

### 3. CHOOSE A MOUNTING OPTION

**TRIPOD**

- For portable systems
- Attaches to base of 8535 / DTE enclosure for flexible positioning



**POLE MOUNTING KIT**

- For fixed systems
- Includes bracket, hardware and mounting strap to attach the 8537 / DTE 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



TSI 854041 for DTE 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

Rent or rent-to-buy the latest instruments for the duration that you need them.

### 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 custom solutions

In addition to the options in this selection guide, we also offer a number of other specialised monitoring solutions, as well as being able to build a system to meet your exact requirements. With **hundreds of custom-designed systems** under our belts, we're sure to have a solution for you:



### SMOKETRAK

A portable real-time particulate monitoring station also built around the DustTrak. Ideal for bushfire smoke plume tracking, identification of highly polluting domestic wood fires and for tracking of point sources of particulate matter.

### KENSENSE

New to our customised monitoring range, this is a lightweight, portable measurement solution with the capacity to configure up to 6 channels of measurement for dust, aerosol and gas monitoring.



We look forward to  
working with you.



Kenelec Scientific Pty Ltd | ABN 88 064 373 717  
23 Redland Drive, Mitcham VIC 3132  
p 1300 73 22 33 | e [info@kenelec.com.au](mailto:info@kenelec.com.au) | w [www.kenelec.com.au](http://www.kenelec.com.au)

KS BROCHURE | DUSTGUIDE | MAY19

