



Area and boundary nuisance dust level monitoring



KEY FEATURES:

- Gravimetric / real time data
- Ideal for site surveys
- Ease of operation
- Operates up to 19 hours*
- Samples for PM₁₀, PM_{2.5} and respirable fractions
- Individual instruments can be removed and utilised separately
- No external power supply required
- Ideal for remote locations
- Indoor/ Outdoor applications

INTRODUCTION

For site operators and managers who have a requirement for area monitoring, the Dust Detective is an ideal survey tool, which is quick to assemble, easily deployed and provides data which can be downloaded for evaluation and reporting purposes. The unit is supplied complete with a Microdust Pro real time dust monitor, Apex Lite air sampling pump and operates off internal alkaline batteries for up to 19 hours*.

Both gravimetric and real time dust data can be obtained, and foam inserts can also be used which allow size selection of PM₁₀, PM_{2.5} & respirable fractions to be taken.

The unit can be purchased without instruments as an accessory for existing users of Microdust Pro and Apex sampling pumps.

Dust Detective Static Sampling Enclosure

Features

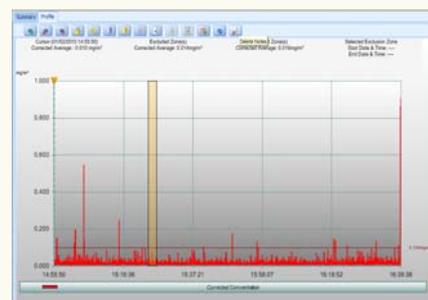
The Dust Detective is a ruggedised enclosure which can hold a Microdust Pro real time dust monitor together with an Apex standard or Apex Lite personal air sampling pump. The unit is simple to assemble and allows static air samples to be undertaken on site. The (IP65) enclosure is fully weatherproof, and can be secured in location with padlocks (not supplied) for extra security. The air sample is drawn into the enclosure via filters if required to allow gravimetric samples to be obtained. These filters can also be used to determine the nature of the particulate pollution for source apportionment issues. The Microdust Pro allows real time dust levels to be recorded and data downloaded at the end of the sampling period. Graphs with summary data can be generated. The internal dry cell batteries allow operation for over 19 hours*. Respirable, PM₁₀ & PM_{2.5} fractions can also be monitored by utilising special inlet foams on the sampling inlet.



Casella Insight Data Management Software



This software package for the Microdust Pro allows the user to identify trends in dust levels, areas of concern and hot spots which will require action, remediation or further attention. Records are kept in a central database and reports easily generated. Casella Insight can also be used with Casella CEL's range of noise dosimeters, sound level meters and air sampling pumps.



Technical Specification

Refer to Microdust Pro and Apex Personal Air Sampling Datasheets.



*Please note unit should not be used for extended sampling periods outdoors as the optics will be affected by moisture and aerosols.

Batteries: Apex Lite and Microdust Pro each operate from internal AA alkaline batteries.

Battery life Typically >19 hours. (*Life of Alkaline batteries may be reduced when operating at low ambient temperatures).

Operating conditions: Relative humidity of 5 to 90% (non condensing).
Temperature 0 to 40°C.

Ordering Information:

Dust Detective Kit: 176171A Comprising: Rugged Enclosure complete with Microdust Pro unit, adaptors, PUF filters, download cable and Apex Lite air sampling pump, alkaline batteries.

Dust Detective Enclosure 176170D** (Consists of adaptors, PUF filters and enclosure only).

**Additional Instruments can be ordered separately for kit: (see opposite).

P104124: (utilises dry cell Apex Lite)

P104105: (Utilises Apex standard with charger base)

NiMH Rechargeable cells for Microdust pro: -B148. Charger: -PC18.

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Shows P104105 kit comprising Microdust Kit, Apex Starter kit, Apex pump and charger



Shows P104124 kit comprising Microdust Kit, Apex Starter kit, Apex Lite pump and pre weighed filters

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