



Casella Dust Detective

Area and boundary nuisance dust monitoring



Key Features

- Gravimetric & real-time dust data
- Ideal for site surveys
- Ease of operation
- Operates up to 13 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 uses a Microdust Pro real time dust monitor, TUFF air sampling pump and operates off internal batteries for up to 13 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.

Dust Detective Static Sampling Enclosure

The Dust Detective is a ruggedised enclosure which can hold a Microdust Pro real time dust monitor together with a TUFF 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 13 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

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INSIGHT

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 range of noise dosimeters, sound level meters and air sampling pumps.



Technical Information

General

Refer to Microdust Pro and TUFF Personal Air Sampling datasheets for detailed information.

Battery life: Typically >13 hours.

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

Protection: IP65

Ordering Information

CEL -712 Dust Detective Kit: 206107A
(Comprising: Rugged enclosure consisting of PM10, PM2.5 and respirable PUF filters with built-in size selective adaptor. CEL-712 Microdust Pro, calibration insert, cleaning bellows, 3 x AA batteries, USB cable, Insight data management software, instruction manual & field guide (on flash memory drive) and TUFF air sampling pump and charger.)

Dust Detective Enclosure: 206105D
Microdust Pro Kit: CEL-712/K1
TUFF Air Sampling Pump: P314221

206105D includes PUF filters for PM2.5, PM10 and respirable dust. Flow meter and gravimetric filters must be ordered separately.



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