



The new generation of real-time dust monitor

Overview

The CEL-712 Microdust Pro is a rugged, hand-held, data logging instrument for the real-time detection of airborne dusts, fumes and aerosols. It has a large colour display and a graphical facility, allowing the user to instantly view the dust level and trends. It is ideal for walk-through surveys of ambient and indoor workplace environments.

A quick, easy to use instrument, giving the user additional qualitative data which cannot be gained by gravimetric air sampling methods alone. This extremely versatile instrument can also be used with a range of accessories for static and size selective sampling applications.

The CEL-712 Microdust Pro has the highest measurement range of any occupational dust measurement instrument available on the market. Up to 999 measurements can be made with the large memory. This can be downloaded into Casella Insight Data Management Software, where it can be stored and analysed as necessary. Reports can easily be generated by location or person using the intuitive report wizard.

System Features

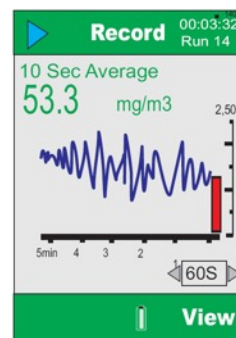
- Real-time graphical display of dust levels
- Simple icon driven user interface
- Extensive range: 0.001 to 2,500 mg/m³
- Unique removable sampling probe
- Rugged design for harsh environments
- Multi-language operation
- Sampling for total, respirable, PM2.5 or PM10 with optional adaptor
- Unique on-site calibration device

Quick and Easy Dust Measurements

The CEL-712 Microdust Pro can be used for spot checks and walk through surveys with the advantage of seeing instantly when and where excessive dust levels are occurring. The CEL-712 Microdust Pro is very easy to use with a simple interface. A user can be taking a measurement within seconds of starting the unit. A calibration filter is used on site that provides a spot check of the linearity. This is unique to the market as no other device has this capability. The screens are colour coded to ease navigation, once a measurement is started they turn green (shown right) or red when stopped. When taking a measurement, real-time averages and instantaneous levels are shown and subsequently stored to the memory for review later.



On-site calibration device

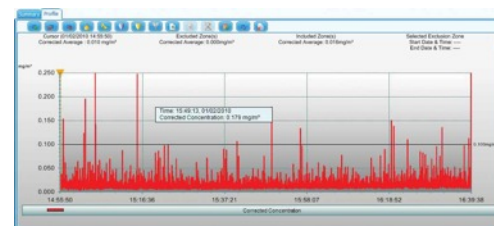


Real-time graphical dust display

The instrument is factory calibrated using a method traceable back to isokinetic techniques using ISO 12103-1 A2 Fine test dust (Arizona road dust equivalent). Three user-defined dust type settings are available to suit specific types of particulate or particular monitoring applications. These dust settings can be obtained by using the CEL-712 Microdust Pro in conjunction with an optional TUFF Air Sampling Pump and gravimetric adaptor, allowing calculation of a correction factor for the measured dust.

Casella Insight Data Management Software

The CEL-712 Microdust Pro can be downloaded to Casella Insight Data Management Software using the USB cable provided. Once downloaded, the time history of the dust level can be displayed and analysed as necessary, so the times and extent of particularly 'dusty' events can be seen.



Measurements can be stored related to the person or area they were measured and reports can be produced showing the relevant data for multiple people or places as required.

Technical Specification

Measuring range:	0-2,500mg/m ³	Resolution:	0.001mg/m ³
Zero stability:	<2ug/m ³	Operating temp:	0-55°C
Batteries:	3xAA	Battery run time:	Approx 13 hours
External power:	12VDC (via -PC18 supply)	Weight:	<600g including batteries
Logging interval:	1s to 60 minutes	Memory:	86,000 data points
Communication:	Mini B USB	Analogue output:	0-2.5V DC FSD
Size (instrument):	172x72x33mm	Size (probe):	110x427x325mm

Ordering Information

Part number CEL-712/K1: Instrument kit contains CEL-712 Microdust Pro, calibration insert, cleaning bellow, USB cable, 3xAA batteries, Insight data management software, instruction manual (on CD) and field guide. All housed in a briefcase style lockable case.

Casella CEL

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