



The Next Generation of Real-time Dust Monitor

Overview

The CEL-712 Microdust Pro™ is a rugged, hand-held, data logging instrument for real-time detection of airborne dusts, fumes and aerosols. It has a large graphical color display, to instantly view current level and concentration over time to identify events and trends. It is ideal for walk-through surveys or continuous evaluation of workplace or ambient environments.

Easy to use, with an intuitive icon driven interface, the CEL-712 provides qualitative data of aerosol and dust concentration which cannot be obtained through gravimetric air sampling methods alone. To add to its versatility, it can also accommodate a range of accessories for gravimetric and size-selective sampling applications.

The new Microdust Pro has the highest maximum measurement range of any hand-held real-time dust monitor available today and can be zero- and span-calibrated in the field for maximum accuracy. Up to 999 measurements are stored in memory. These can be downloaded into Casella Insight™ Data Management Software and stored on your PC by location, process or person and analyzed in graphic detail. Concise user-defined reports are easily generated using the intuitive report wizard and are created in a wide variety of standard file types (.pdf, .xls, .jpg) for easy inclusion with your preferred reporting format.

System Features

- Real-time graphical display of dust levels
- Simple icon driven user interface
- Wide range: 0.001 to 2,500 mg/m³
- Unique removable sampling probe
- Rugged design for harsh environments
- Multi-language operation
- Comes with download & reporting software
- Samples for total respirable dust, or PM2.5 and PM10 with optional adaptor
- Convenient on-site calibration cell included

Safety made simple

The CEL-712 Microdust Pro is perfect for spot checks and walk through surveys because it allows the user to instantly see the “when and where” excessive dust levels are occurring so process or other engineering controls can be considered. It is amazingly easy to use with the simplest interface ever - a new user can take measurements within seconds of starting the unit. The screen is color coded to ease navigation; once a measurement is started it turns green (shown at right) and changes to red when stopped. Real-time averages and levels are shown and stored to the memory for later review. Another great convenience is the optical cell calibration filter that field-checks linearity in the field, an advantage that no other dust monitor offers.

The CEL-712 Microdust Pro is factory calibrated using ISO 12103-1 A2 Fine Test Dust (Arizona Road Dust equivalent). Four user-defined dust type settings are available to accommodate material-specific particulate characteristics or unique monitoring applications. These dust type correction factors can be obtained by using the CEL-712 Microdust Pro in conjunction with an optional TUFF Air Sampling Pump and gravimetric adaptor, resulting in an on-board library of correction factors for specific measured dust or powder types.

FREE Insight Data Management Software

The CEL-712 Microdust Pro comes with Casella Insight Data Management Software. Measurements are downloaded to the PC using the standard USB cable included. Once downloaded, the time history data of levels over time can be displayed and analyzed, so the extent of events can be easily seen. Measurement results can be organized and classified by the site, location, process, or person for which they were obtained.

Technical Specification

Measuring range	0-2,500mg/m ³	Resolution	0.001mg/m ³
Zero stability	<2ug/m ³	Operating temp	0-55°C (32° -131°F)
Batteries	3 x AA	Battery run time	Approx 13 hours
External power	12VDC (via -PC18 supply)	Weight	<600g w/batteries (1.3 lbs)
Logging interval	1 second to 60 minutes	Memory	86,000 data points
Communication	Mini B USB	Analog output	0-2.5V DC FSD
Size (instrument)	172 x 72 x 33mm (6.8 x 2.8 x 1.3")	Size (probe)	35 x 205mm (1.4 x 8.1")

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.

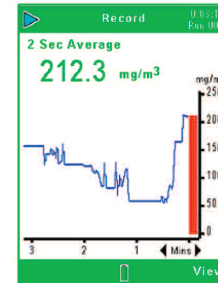
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On-site calibration device



Real-time graphical dust display

