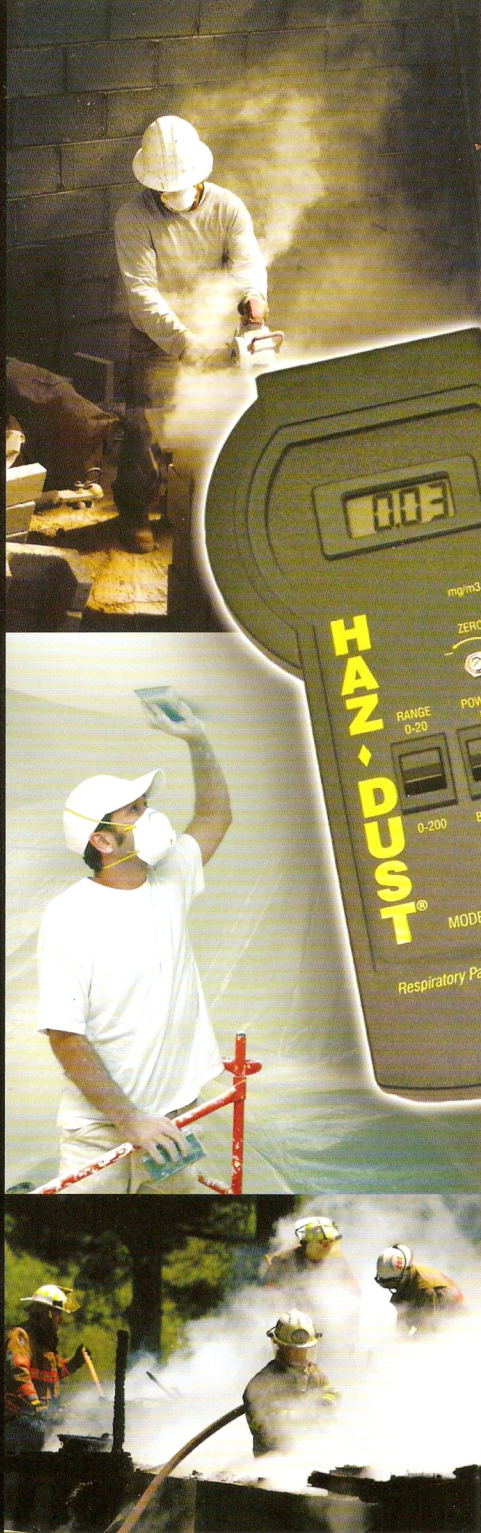


HAZ-DUST®

Real-Time Particulate Air Monitors

www.hazdust.com



Model HD-1100

Respiratory Air Monitor

Calibrated for US OSHA Respirable Dust
and Occupational Health Applications



DL-103 Data Logger

For HD-1100 Monitor

For Data Collection and Statistical Analysis

Model HD-1100 - Real Time Dust Monitor

Setting new standards in respiratory monitoring

HAZ-DUST uses the latest in infrared technology which provides accurate and instantaneous data on airborne particle concentrations, in accordance with the regulatory NIOSH method 0600 for lung damaging Respirable particulates.

HAZ-DUST saves money by eliminating repetitious and costly gravimetric air sampling and the associated time delays involved with laboratory analysis.

With **HAZ-DUST** your results are determined easily and immediately displayed.

By continuously monitoring lung-damaging particles **HAZ-DUST** protects the respiratory health of industrial personnel and

reduces any potential liabilities, in addition to reducing the cost of your regulatory air monitoring program.

When coupled with the **DL-103 Data Logger**, maximum automation is achieved for

data collection, statistical analysis, graphs and detailed report generation. Software is completely Windows™ compatible and easy to use.

If your company is concerned with air quality and its effects on workers & the community, the **HAZ-DUST** will help you comply with federal regulations for respiratory safety.



For All Types of Dust and Aerosols

- | | | |
|-----------------|----------------------|--------------------------|
| • Lead | • Silica | • Welding fumes |
| • Coal | • Wood | • Concrete/Cement |
| • Chromate | • Nuisance dust | • Pharmaceutical dust |
| • Dry Chemicals | • Heavy Metals/PCB's | • Paint Spray |
| • Grain | • Construction dusts | • Toxic Soil Remediation |

Applications

- Determining level of respiratory protection
- Survey of workplace for OSHA/EPA compliance
- Qualifying off site particulate migration
- Surveying for PM-10 and TSP levels
- Monitoring dust generation during drilling/excavation operations
- Evaluating dust suppression and engineering controls
- Locating and identifying "Hot Spots"
- Emergency Response & fugitive emissions compliance
- Evaluating worker's exposure to airborne contaminants
- Dust collector/ventilation system checks
- Monitoring lung damaging particles in factories & buildings
- Can be used in all OSHA & EPA personal and ambient particulate air sampling applications

Features

Easy operation

Turn the instrument on and your results are immediately calculated.

High Sensitivity

Sensitive enough to monitor all OSHA/NIOSH reference methods. Sensitivity down to 0.01mg/m³.

Low Battery Indicator

Alerts the user when the battery needs recharging, so the unit is ready when you are.

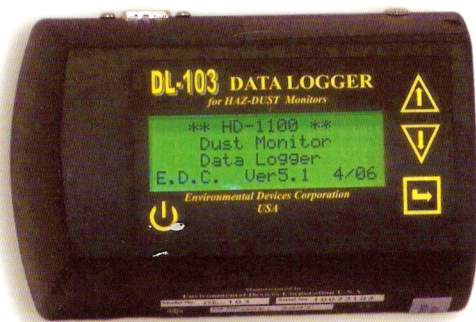
Data Logging

DL-103 Data Logger and software provides management ready statistical reports. Allows for a complete time vs. concentration profile, which is impossible to obtain with filter/gravimetric techniques.

Rugged Construction

Lightweight case is able to withstand harsh environments and rough handling. A unique design provides protection against RFI/EMI waves (emitted from radios, transmitters, etc.), which affects the precision of many measuring devices.

Model DL-103 - Data Logger



LCD display (liquid crystal display) that prompts the operator through all menus.

Data review and analysis is displayed directly on the LCD screen. Dustcomm Pro Software provides further analysis. Windows™ application software package designed to operate with IBM and compatible PC's. Data transmission from the data logger to computer is accomplished through an RS-232 communications port.

The **DL-103 Data Logger** is an advanced recording device specifically designed for storing aerosol data from the Haz-Dust line particulate monitor. The large memory allows storage of up to 21,500 data points and a sampling range from 1 second to 21 weeks. The **DL-103** does not require specialized system set-up and calibration. The system-up configuration is stored in nonvolatile memory. A four key user-friendly switch pad is used in conjunction with a 4 line, 20-character alphanumeric



Measuring Oil Mist Particulate Concentration in machining application

Hand-held Haz-Dust Model HD-1100 Particulate Monitor connects to data logger DL-103 on user waist belt and provides computer graphs and OSHA ready reports.

DustComm Pro Software

DustComm is a powerful and flexible Windows™ application software package designed for use with the Haz-Dust Particulate Monitoring Equipment.

DustComm is both communications software that enables stored project data to be downloaded to a PC, and a data manipulation tool, enabling detailed analysis and reporting of sampled data.

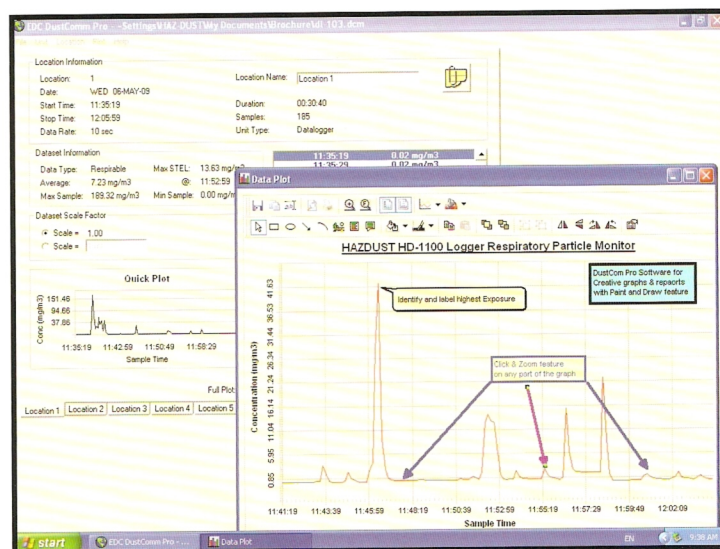
Spreadsheet Applications

DustComm easily translates data into spreadsheet programs such as Microsoft Excel.

Data Plots

The data plots provided with DustComm enable:

- Detailed statistical analysis
- The creation of graphics and charts
- The mathematical correction of particle characteristics when aerosol significantly differs from calibration dust.



Environmental Devices Corporation is a manufacturer of scientific instrumentation specializing in real-time monitoring of particulates, gases, and meteorological equipment. Since its incorporation in 1990, EDC has designed and commercialized several advanced product lines of air monitoring equipment. All Products are highly portable, light weight and compact. EDC has gained worldwide recognition and is committed to ISO-9001 quality standards in accordance with requirements and procedures of ANSI/ASQC.

Particulate Monitors Also Available:



Breathing Zone Measurements

Haz-Dust IV HD-1004 Personal Real-Time Dust Monitor



Direct Reading Ambient PM-10 and PM-2.5 Air Sampling

EPAM-5000 Real-Time Environmental Particulate Air Monitor



Indoor Air Quality Monitor

Air-Aide AA-3500 Airborne Particulate Monitor



Fix Point Continuous Aerosol Monitor

AQ-10 Industrial Air Quality Monitor



Low cost Filter Based PM-2.5 and PM-10 Air Sampler

Dust-Sol DS-2.5 Portable Particulate Ambient Air Sampler



Direct Reading Dust & Video Monitor to Record Visual Proof of Exposure VDM-7500 Wireless Video Dust Monitoring System



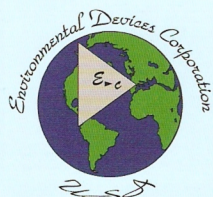
Personal Direct Reading Diesel Particulate Monitor

Haz-Dust DPM-4000 Diesel Particulate Monitor

See Our website for gas and meteorological product information

www.hazdust.com

Custom Manufacturing Design Services Available



Manufactured by:

Environmental Devices Corporation

4 Wilder Drive, Bldg. 15

Plaistow, NH 03865-2856

Tel: 603-378-2112 • Fax: 603-378-2113

Email: sales@hazdust.com

HD-1100 HAZ-DUST Specifications

10µm Particulate Monitor HAZ-DUST with concentration range 0.01-200mg/m3

Display: LCD 3.5 digits mg/m3 concentration reading

Calibration: Gravimetric reference NIST Traceable - SAE fine test dust-ISO12103-1

Sensing range: 0.01-200mg/m3

Particle size range: 0.1-50µm

Precision: +/- 0.02mg/m3

Accuracy: +/-10% to NIOSH #0600

Power: 6VDC NiMH rechargeable battery

Operating time: >8 hours

Charging time: 10-12 hours

Signal output: 0-2 volt

Humidity: 95% non-condensing

Dimensions: 9"x3"x1.5"

Weight: 1.25lbs

DL-103 Data Logger Specifications

Single channel, 3 keys programmable operation. Real-time clock display with on screen calculation of statistics

Number of Channels: single channel

Input Voltage: 0-2 voltage

Resolution: 0.1mv

Real-Time Clock: User-programmable display in days, hours, minutes & seconds

Recording Rime: programmable from 1 minute to 12 hours

Sampling Rate: 1 or 2 sec. per sample display: 4 line, 15 character alphanumeric LCD

DustComm Pro Software: Window™ driven for graphical and data translation

Output: RS-232C, programmable baud rate of 9600

Power: 9.6V rechargeable Ni-cad batteries

Operating temperature: -20°C to 60°C

Storage Temperature: -20°C to 60°C

Humidity: less then 95% or non-condensing

Dimensions: 7 x 3.5 x 2.5 inches

Weight: 1lbs.

Accessories

TP-111 Tripod Stand

CS-111 Calibration Standard

ZA-111 Zeroing Accessory

KK-101 Cleaning Kit

ISO-9001 Certified

