MODEL **HD-7204**

Personal Real-Time Aerosol Compliance Monitor for measuring all lung damaging particles and aerosols

The Only Personal Monitor To Offer:

- Flow compensated pump for OSHA & NIOSH compliance monitoring
- Compatible with any pre-loaded 37 or 25mm filter cassette
- Tested and validated selective size inhalable and respirable sampling inlets

HD-7204 4 12:11:42 12/27/2019 Run Trile SILICA DUST:05 Aerosol Respirable Aerosol #10

> • 25 Calibrate

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HAZ-DUST

0 300

1 sec

- Miniaturized optical sensor mounts in OSHA defined breathing zone
- Easy to clean optical sensor
- Infield calibration verification

• Optional Wi-Fi, BLE, GSM, and networking capabilities.

HD-7204 identifies potential dust problems before they become health concerns

Common Uses

- Silica
- Diesel
- Coal
- Lead
- Construction dust
- Welding fumes
- Wild fires
- Concrete/cement
- Nuisance dusts
- Grinding dusts
- Pharmaceuticals
- Paint spray
- Grain
- Soil remediations
- Wood/paper
- Cadmium
- Chromate
- Tobacco smoke
- Construction dust
- Dry chemicals
- Oil mists

Key Features

- Flow compensated pump
- Can accept any 37mm or 25mm pre-weighed and preloaded filter cassette
- Respirable & Inhalable sampling inlets
- Miniature sensor in OSHA defined breathing zone
- Ability to create on screen aerosol profiles and the ability to name data sets
- Real-time rolling graphical display
- Large color touch screen
- Optional wireless connectivity
- Impactors for PM-10, PM-5.0, PM-4.0, PM-2.5
- · Easy to clean optical sensor
- Infield calibration verification
- Multiple language options
- OSHA TWA, min, max, cumulative average along with STEL and ceiling alarms

Environmental Devices Corporation

Airborne particulate matter, or dust, is becoming an increasing concern and making current headlines due to its adverse effects to human respiratory health. Lung damaging particulates in the workplace can be detrimental to a worker's health as well as a company's legal responsibility.

The **HD-7204** is a valuable tool that allows Industrial Hygienists and safety professionals to immediately identify problem areas and job tasks with the highest risk. Professionals can then implement control measures to reduce worker exposure levels and measure the effectiveness of these controls.

The HAZ-DUST Model **HD-7204** offers a flow compensated pump for compliance monitoring. The days of requiring two devices and co-locating a FRM filter cassette and real-time reading instrument are over! The **HD-7204** offers a flow compensated pump, the ability to use pre-weighed filter cassettes and offers real-time capabilities. The sensor, which is mounted in the OSHA defined breathing zone, is sandwiched between a 25 or 37mm filter cassette and interchangeable, validated, sampling inlets for respirable, inhalable and thoracic particulate size fractions.

When used as part of a routine air-monitoring program, the **HD-7204** can significantly reduce the number of filter gravimetric tests and laboratory analyses. For example, an OSHA compliance air monitoring program may dictate air monitoring for particulates on a monthly basis to determine that work practices are below Federal Regulations. If a company has 10 or more employees at risk of exposure this can result in as many as 10 to 20 tests per month and subsequent lab analysis. By implementing a **HD-7204** real-time dust monitor, particulate concentrations can be determined immediately and in real-time. No special skills are needed and no laboratory analysis is required. The **HD-7204** actually pays for itself by reducing the number of filter gravimetric tests by 25 to 50%. The **HD-7204** alerts users in seconds and allows for immediate corrective action.

In addition to being a cost saving instrument, it has the greatest range, lowest detection and better resolution than any other personal monitor on the market. Also, the user interface was designed with the worker in mind! The **HD-7204** provides comprehensive real-time rolling graphs, audible and visual alarms, dust concentration in either ug/m³ or mg/m³, the ability to name data sets and create unique aerosol profiles through the color touch screen.

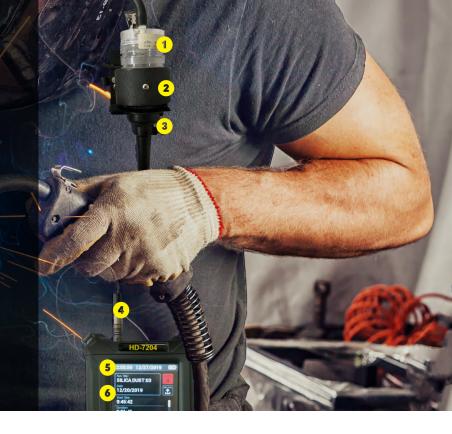
Our most valuable tool for immediate readings of dangerous dust while helping reduce costs of regulatory compliance monitoring.

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- 01 OSHA in-line 37mm gravimetric filter cassette
- 02 Miniature optical infrared sensor for true breathing zone measurements
- **03** OSHA defined interchangeable sampling inlets
- 04 Optional wireless connection Radio, Bluetooth, and Cellular
- 05 Real time display of dust concentration, data logging of personal exposures, and statistics; TWA, STEL, MAX, MIN
- 06 Flow Compensating Pump





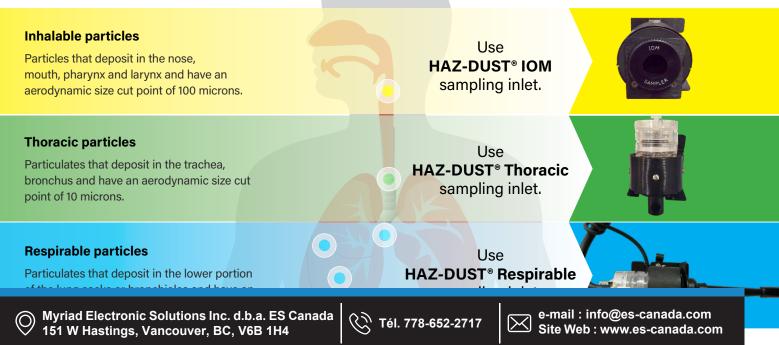
Two instruments in one

Personal Real-Time Aerosol Monitor and compliance for filter gravimetric sampling

- Immediate display of airborne particulate concentration
- Early warning audible alarm signal of approaching threshold limits
- Validated interchangeable sampling inlet
- In-line 37mm filter can be weighed or analyzed
- Accurate size selective separation
- **Comprehensive** time vs. concentration graphs with supplied
- Single or multiple instruments can effortlessly transmit in real time to PC or laptop through wireless options

HAZ-DUST® 7204 provides a solution

for each OSHA defined size selective region of the lungs



HD-7204 Specifications

Sensors	Sensor Type: 90° light scattering 880nm Calibration: Calibrated against Gravimetric reference NIST traceable- SAE fine test dust ISO12103-1 A2 Fine Test Dust.	Recording Time	1 second to 15 days Sampling Rate: 1 sec., 4 sec., 10 sec., and 60 sec
	Accuracy: +/- 10% to filter gravimetric SAE fine test dust Precision: +/- 0.02 mg/m ³	Data Storage	43,200 data points
	Sensing Range: 0.001-500 mg/m ³ or 1-500,000 ug/m ³ PM Size Range: 0.1 to 100ųm Minimum Resolution: 1 ug/m ³ (0.001 mg/m ³) Zero Stability: +/- 0.001 mg/m ³ (give ug/m ³ equivalent also) over 24	Memory & Time Storage	>5 years
	hours using 10 second log rate. Humidity: 95% non-condensing	Digital Output	Micro USB 6.00' (1.83m), A Male to Micro B Male, 28SWG, Shielded
Display	3.5", 24-bit True color, Resistive Color Touch, with Auto Dimming	Power Supply	Wall Mount, Multi Bald Included, Voltage Input 100~240 VAC, Voltage Output 12V, Current Output 2A, CE, UL, CB, cUL, PSE, RCM
Real-Time Data Display	Time: Hours, min., sec., 12hour & 24 hour Date: MM/DD/YYYY, YY/MM/DD, DD/MM/YY		CB, CUL, FSE, NCIVI
	Data Display: Concentrations (mg/m³, ug/m³), Sampling Size Fraction of PM	Battery	Lithium Ion pack, 7.4 Volt 3350 mAh, 24.79 watts
	(OSHA TWA, AVE., MAX., MIN.), Start time, stop time, elapsed run time, Log rate, Flow, Real-Time Rolling Graphs (10 sec and 1 second), Personalized Named Data Sets, Unique Aerosol Profiles, Language	Operating Time	22+ hours Running at 2.0LPM with IOM and no filter.
	Options, Battery Life	Operating & Storing	Operating Temperature: 0 to 50°C Storage Temperature: -20 to 70°C
	Pump Faults, Flow Rate, In Feld Calibration Test, History of Data Sets	Conditions	Operational Humidity: 0-95% Non-Condensing
Sampling Flow Rate	Sampling Flow Rate: 1-5 Lpm The pump is capable to maintain flow within ±5% as follows: 1.0 Lpm up to 70 Inch H2O; 2.5 Lpm up to 55 Inch H2O, and 5.0 Lpm up to 20 inch H2O.	DUSTCOMM Pro Software	Windows™ driven Windows 10 or greater
		Maintenance	Zero Calibration: Before each use In Field Calibration Verification: Before each use
Filter Cassette	37mm preloaded and weighted filter cassette 37mm 1um jeweled cassette for diesel particulates 25mm Preloaded cassette		Flow Calibration Vernication: Before each use Flow Calibration: Before each use. Will automatically change when switching PM selective size. Sensor Cleaning: By user when needed/ or during
Attachable Inlets			annual calibration
Respirable Inlet	GS-3 Cyclone: 2.75 LPM for 4µm cut point (OSHA silica rule) Meets ISO 7708/CEN criteria		Factory Calibration: Annually or when instrument fails infield calibration verification.
	GS-1 Cyclone: 2.0LPM for 4µm cut point (OSHA silica rule) 3 LPM for 3.5 cut point (MSHA silica standard) 1.7 or 2.0 LPM with DPM cassette (MSHA DPM sampling) Meets ISO 7708/CEN criteria	Weight and Dimensions	Dimensions (Case): 3.5" × 2.25" × 4.75" Sensor Dimensions: 1.75" × 1.5" Weight Instrument: 1.14lbs
Inhalable Inlet	IOM sampler: 2.0 LPM Meets ISO 7708/CEN criteria		Weight Sensor: 0.6lbs Display dimensions: 3.5"
Thoracic Inlet	Thoracic Sampling Inlet: 2.0LPM	PM Sensor	Sensor Type: 90° light scattering 88nm
Impactors	PM10, PM5.0, PM4.0, PM2.5		Calibrated against Gravimteric reference NIST traceable- SAE fine test dust ISO12103-1 A2 Fine Test Dust.
Alarm Output	Audible & Visual Audible: 90db at 3ft Ceiling and S.T.E.L Alarms, Pump Fail, and Low Battery	Tripod Mounting	Optional Accessory

Optional Wireless Connectivity available. Contact EDC for specifications.

For more information on HD-7204, or to learn more about other particulate monitors available, contact us.

Specifications are subject to change without notice. HAZ-DUST[®] is a registered trademark of Environmental Devices Corporation. Printed in the USA Specifications Revision A ©2020 Environmental Devices Corporation



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Environmental Devices Corporation is a manufacturer of scientific instrumentation specializing in real-lime 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



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