HAZ-DUST

DPM-7204

Personal Real-Time Diesel Aerosol Monitor

The Haz-Dust Real-Time Diesel Particulate Monitor Model DPM-7204 is a complete and personal portable package that allows true breathing zone measurements and comprehensive graph reporting. The product is designed for measuring diesel particulate matter for Industrial Hygiene and Environmental air investigations. DPM-7204 is individually worn and offers immediate determination and data storage of airborne diesel particulate concentrations in micrograms or milligrams per cubic meter. This is the only commercially available personal direct reading aerosol monitor specifically designed and calibrated for measuring occupational exposures of diesel particulate matter in the workplace with a flow compensated pump.

Diesel powered equipment usage is widespread and growing. Worldwide diesel exposures occur in transportation, mining, agriculture and other industries. Diesel particulate matter (DPM) studies have consistently found positive association as a human carcinogen. Diesel particulate exposures adversely affect human respiratory and cardiovascular health. The inline 37mm filter cassette allows the user to concurrently collect filter samples for carbon analysis by NIOSH method 5040.

The signal processing electronics and microprocessor are enclosed in a compact case that attaches to the individual's waist while the sensor mounts in the OSHA defined breathing zone. Statistics such as: TWA, STEL, Max, and Minimum Ceiling alarm and faults can instantly be viewed on the display. The internal user adjustable alarm can be preset to alert the user of approaching dangerous threshold limits. In addition, users can enter calibration factors and aerosol profiles all through the touch screen.

Accompanying software provides management ready graphs and reports with the ability to view graphs from a central command post in real time with our wireless networking options. DPM-7204 is an excellent survey compliance tool for determining worker exposure to diesel contaminates, diesel engine combustion efficiency, evaluating levels of respiratory protection, or any application that requires immediate and accurate air monitoring of lung damaging diesel particulates.

New Diesel Particulate Monitor Model DPM-7204

Color Touch Screen with a flow compensated pump.

DPM-7204 Monitor Shown with SKC GS-1 Cyclone and Filter Cassette

Applications

- Diesel Engine Surveys
- Combustion Efficiency
- Mining
- Transportation (i.e. Bus Depots, Trucking, & Freight)
- Valuable Survey Tool for MSHA & NIOSH Compliance Program – Reviews or any air monitoring applications involving lung damaging diesel particulate matter

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

DPM-7204 Specifications

Operations: Four key splash proof membrane switch – menu driven
Calibration: NIOSH gravimetric reference NIST traceable – SAE fine test dust
Accuracy: +/- 10% to filter gravimetric SAE fine test dust

Particulate Size Range: <1 to 10 µm
Precision: +/- 2 µg/m³
Sample Flow Rate: 1.0 – 3.3 liters/minute (recommend flow 1.7 LPM)
Filter Cassette: 37mm disposable
Alarm Output: 90db at 3ft

Concentration Range: 1-20,000 µg/m³
Memory & Time Storage: ≥ 5 years
Real-time Clock and Data Display: Hours, minute, second, day, month, & year
Data Display: TWA, MAX, MIN, STEL, date, & time, log rate, aerosol profiles, Calibration factors, language, alarm levels.

Operating Temperature: 0 to 50º C

DustComm Pro Software:

Windows™ Driven

Humidity: 95% non-condensing

Environmental Devices Corporation

4 Wilder Drive, Bldg. 15 • Plaistow, NH 03865

Phone: (603) 378-2112 • Fax: (603) 378-2113

www.hazdust.com