

Fact Sheet

MSHA Respirable Dust Rule - Phase II

Continuous Personal Dust Monitor (CPDM)



The Continuous Personal Dust Monitor (CPDM) is a belt-wearable, computerized device that measures and displays the real-time, accumulated and full-shift exposure to respirable coal mine dust. Reporting dust concentrations in real time empowers miners and operators to take immediate action to avoid excessive airborne dust levels that can injure miners' lungs. Unlike the samples from existing dust sampling devices that require several days to collect, ship and process, the CPDM's measurement of respirable dust provides more immediate, full-shift exposure data. This device, which represents a major improvement in respirable dust sampling technology, was approved for use by MSHA and the National Institute for Occupational Safety and Health.

CPDM Features and Benefits:

- Real-time measurement and reporting of respirable dust exposures
- Computer-controlled pump maintains volumetric flow rate at 2.2 liters per minute at mine temperature and pressure
- Heated internal sample line removes excess moisture
- Run time of 12 hours allows entire shifts to be sampled
- Weighs approximately 4.4 lbs.