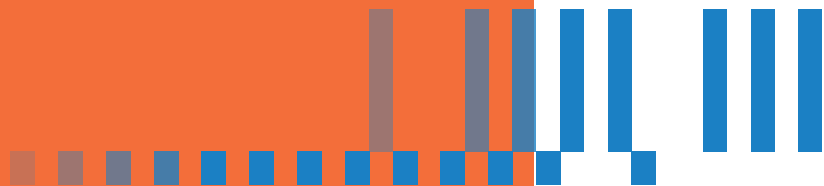® **Knowledge Beyond Measure.**

Personal Aerosol Sampling for Explosive Environments

SidePak™ AM520i Personal Aerosol Monitor

Exposure Monitoring Anywhere…

Protecting your workers requires knowing when their exposure to respirable dust and aerosols is reaching dangerous levels. Real-time monitoring is the difference between having immediate exposure data, and being able to take corrective action in the moment, as opposed to waiting for lab results.

The industry's most versatile, lightweight personal aerosol monitor is now certified to meet this challenge in explosive environments. The SidePak AM520i is the industry's smallest, lightest personal exposure monitor. It fuses TSI's proven instrument design and intuitive controls, with portability for long-running real-time monitoring in environments requiring intrinsically safe instrumentation.
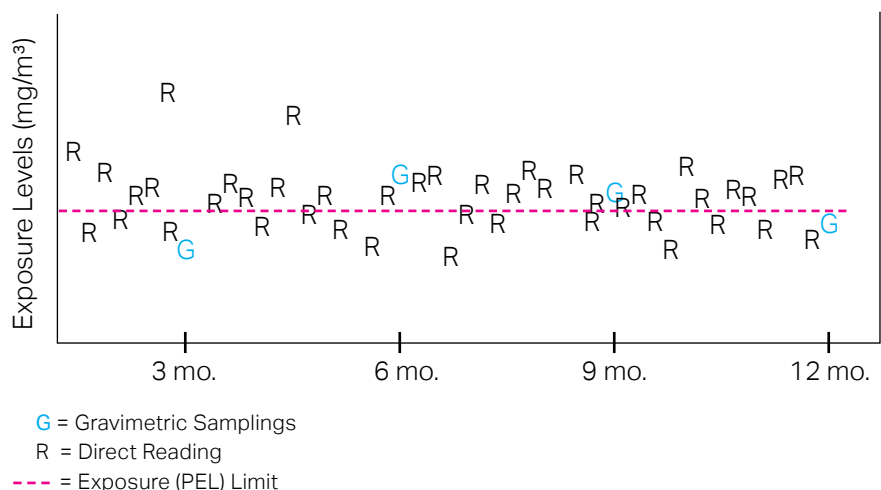
Real-time vs. Gravimetric

Gravimetric sampling is necessary, but expensive and time consuming.

While gravimetric sampling is often a requirement to achieve compliance, it only provides a single data point, an average of exposure for an entire shift. With direct reading capabilities, the SidePak AM520i gives you the whole picture, capturing minute-by-minute data for review and analysis to ensure you are on the right path toward both regulatory compliance and worker safety.

When you have complete data, you can make necessary engineering control changes quickly and efficiently. The ability to validate changes the same day goes beyond compliance and toward superior safety with live real-time data.

Monitoring exposure in real-time provides instant access to more data for daily decision making.

Real-Time Exposure Monitoring vs. Traditional

G = Gravimetric Samplings
R = Direct Reading
- - - = Exposure (PEL) Limit

…For Worker Safety Everywhere

The SidePak AM520i measures worker exposure to respirable dust, silica and Diesel Particulate Matter (DPM) in a wide range of industries where explosive and volatile environments exist:
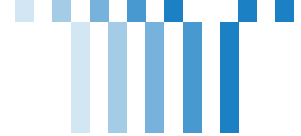
- Aerospace
- Petrochemical
- Oil & Gas
- Chemical manufacturing and processing
- Mining
- Pharmaceutical
- Bulk material handling
- Confined spaces

Data Collection, Analysis And Report Building

The SidePak AM520i's TrakPro™ 5.0 software allows you to download logged data and quickly analyze your findings. This allows you to identify source problems and take corrective action in less time, improving safety and clearing regulatory hurdles.

- Data logging
- Graphing
- Report generation
- Instrumentation setup

Certified For
Explosive Environments

Intrinsic Safety Rating Information

IECEx / ATEX
IECEx SIR 18.0043X
Sira 18ATEX2150X

II 1G
Ex ia IIC T4 Ga
Ex ia | Ma
Rated: 12Vdc SELV
Ta= 0 ºC to +50 ºC

CSA
Class 2258-03 Process Control Equipment —
Intrinsically Safe and Non-Incendive Systems —
For Hazardous Locations — Certified to Canadian Standards

Class I, Division I, Groups A, B, C, D,
Class II, Division I, Groups E, F, G,
Class III; T4; Ex ia IIC T4 Ga
Rated: 12Vdc SELV, 2.5A
Ta= 0 ºC to +50 ºC

Class 2258-83 Process Control Equipment —
Intrinsically Safe and Non-Incendive Systems —
For Hazardous Locations — Certified to US Standards

Class I, Division I, Groups A, B, C, D; T4
Class I Zone 0 AEx ia IIC T4 Ga
Rated: 12Vdc SELV, 2.5A
Ta= 0 ºC to +50 ºC

What It Measures

PM10
PM4 (Respirable)
PM2.5
PM1
0.8 µm DPM

Diesel Particulate Monitoring

Diesel-powered equipment is used in many workplace environments and confined spaces every day.
In the U.S., OSHA estimates that over 1 million workers are currently exposed to diesel exhaust.

Knowledge Beyond Measure.

sales@norrscope.com