

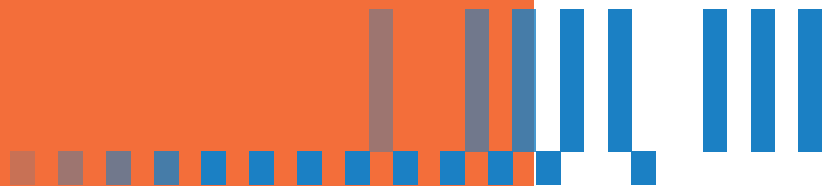


® Knowledge  
Beyond  
Measure.



# 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

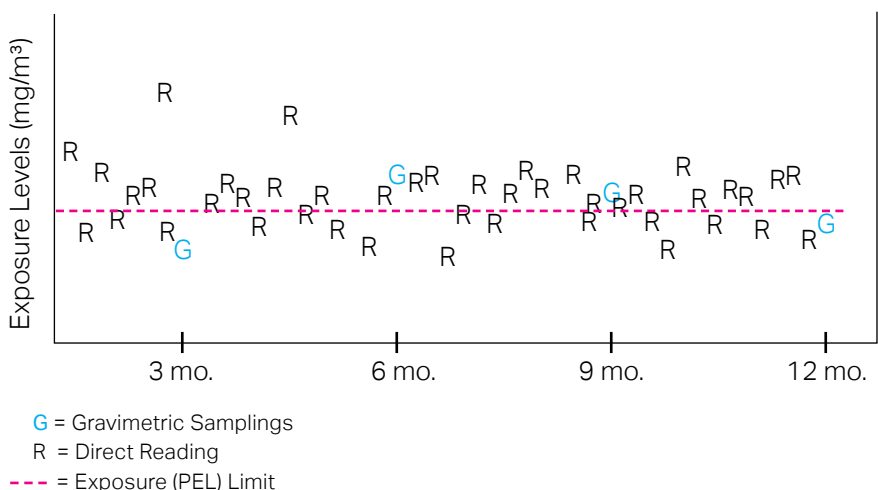
### Gravimetric sampling is necessary, but expensive and time consuming.

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



# ...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 °C to +50 °C



### 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 °C to +50 °C

#### 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 °C to +50 °C

Specifications are subject to change without notice.

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## 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.

TSI Incorporated - Visit our website [www.tsi.com](http://www.tsi.com) for more information.

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