Oil Refineries

SOLAFACT 5400

Passive Fourier Transform Infrared Remote Sensing Analyzer

In today's hazardous environments, accurate monitoring and analysis of toxic and harmful gases are of paramount importance. The SOLAFACT 5400 Passive Fourier Transform Infrared Remote Sensing Analyzer is a revolutionary technology that leads the industry with its outstanding performance and multifunctional features.

Professional Detection Capability

SOLAFACT 5400 boasts unparalleled detection capabilities. Equipped with a high-performance, long-life Sterling-cooled MCT detector, it achieves sensitivity at the ppb level, enabling reliable detection even at extremely low concentrations. Whether it's volatile organic compounds, industrial chemicals, or chemical warfare agents, SOLAFACT 5400 can rapidly and accurately identify and analyze them.

Comprehensive Monitoring and Alerts

SOLAFACT 5400 offers 360° rotational scanning and pitch ±60° monitoring capabilities, with a scanning radius of up to 5 km, providing full coverage of a wide area. It not only provides real-time visualization of the distribution and dispersion trends of target gases in the environment but also offers audio-visual warnings for exceeded gas levels, helping you take necessary actions before crises occur.

Intelligent Software Algorithms

SOLAFACT 5400 is equipped with advanced software algorithms that support the detection and identification of hundreds of industrial compounds and chemical warfare agents. It can perform detection and identification even in complex, low-light conditions without the need for external excitation light sources. Additionally, the instrument includes self-diagnostic, self-calibration, path interference diagnosis, and humidity compensation optimization algorithms, ensuring data accuracy and stability.

Versatile Application Fields

SOLAFACT 5400 finds applications in various fields, including defense, emergency response, counterterrorism, environmental monitoring, firefighting, petroleum, chemical industry, emergency monitoring of sudden chemical incidents, large-scale event security, gas leak detection, and atmospheric pollution analysis. It can be easily mounted on vehicles, ships, helicopters, drones, and other mobile carriers to perform different tasks.

Low Maintenance Costs, High Cost-Effectiveness

The compact design, simple installation, and ease of operation of SOLAFACT 5400 reduce maintenance costs. Using Fourier Transform Infrared Spectroscopy detection technology, it requires no consumables, radioactive sources, or secondary pollution, providing you with very low operating costs.

Choose the Path to the Future

SOLAFACT 5400 Passive Fourier Transform Infrared Remote Sensing Analyzer is an extraordinary instrument that pushes the boundaries of conventional performance, creating a safer future. By choosing SOLAFACT 5400, you will enter a new dimension and gain access to comprehensive and precise toxic and harmful gas monitoring capabilities.

Let's usher in a new era of safety.
Choose SOLAFACT 5400 for safety, reliability, and exceptional performance!

Oil Refineries

SOLAFACT 810

Portable Toxic and Hazardous Substance Detector
Your Best Companion in Hazardous Environments

Pioneering a New Era in Toxic and Hazardous Substance Detection

In complex and hazardous environments, accurate monitoring of toxic and hazardous substances is crucial, and SOLAFACT 810 Portable Toxic and Hazardous Substance Detector provides an outstanding solution. It incorporates international state-of-the-art ion mobility spectroscopy, Raman spectroscopy, and electrochemical array sensor technologies, combined with intelligent recognition algorithms, enabling rapid and precise identification of various forms of toxic and hazardous substances and providing timely warning information. SOLAFACT 810 is the world's first product capable of detecting all forms of toxic and hazardous substances.

Outstanding Features, Unparalleled Performance

SOLAFACT 810 stands out with a range of impressive features:

Wide Detection Range: Simultaneously detects solid, liquid, and gaseous chemical warfare agents, industrial toxic and hazardous gases, highly toxic chemicals, and flammable and explosive dangerous goods, ensuring all-around protection.

Ultra-Fast Detection Response: Most solid and liquid substances can be detected within 5 seconds, and most gases within 10 seconds, ensuring quick awareness of hazardous substance presence.

Portable and Lightweight: Compact size and light weight make it easy to carry. User-friendly human-machine interaction design ensures easy operation and display, even for beginners.

Low False Alarm Rate: The combination of multiple sensing technologies and intelligent recognition algorithms significantly reduces false alarms, ensuring accurate alert information.

Easy to Customize: Modular design allows users to customize the detector according to application scenarios, meeting different needs.

High Sensitivity: Solid and liquid phase detection sensitivity can reach 1% (DMMP in water), and gas phase detection sensitivity can range from ppb to ppm levels, ensuring you don't miss small danger signals.

Wide Range of Application Fields, Your Best Choice

SOLAFACT 810 can be widely used in various fields, including military anti-terrorism, emergency security, environmental monitoring, industrial production, petrochemical industry, customs, firefighting, health, and more. Especially in high-risk industrial environments such as refineries, SOLAFACT 810 will be your best companion, ensuring the safety of your workplace.

Choose Excellence, Choose Peace of Mind

If you are looking for a high-performance portable toxic and hazardous substance detector, SOLAFACT 810 is your top choice. By choosing SOLAFACT 810, you will usher in a new era of toxic and hazardous substance detection, providing unparalleled safety and confidence for you and your team. Contact our sales team now for more information and choose SOLAFACT 810 for safety, reliability, and outstanding performance!

Oil Refineries

SOLAFACT 800

The Unmatched Handheld Chemical Agent Detector
Initiating a New Era of Chemical Agent Monitoring

In today's uncertain world, ensuring people's safety is of paramount importance. The SOLAFACT 800 Handheld Chemical Agent Detector is a highly advanced instrument that combines world-leading technologies to rapidly and accurately detect chemical agents, industrial toxic and hazardous gases, and radioactive contamination. Its performance matches or exceeds that of similar international products, providing unprecedented safety assurance.

Outstanding Performance, Unparalleled

SOLAFACT 800 stands out with a range of remarkable features:

Compact and Lightweight, Easy Operation: This handheld instrument is compact, lightweight, and extremely user-friendly, even for beginners.

High Sensitivity, Reliable Detection: SOLAFACT 800's sensitivity is impressive, detecting typical agents like sarin at 0.1 mg/m3.

Excellent Resolution: The instrument efficiently distinguishes different types of chemical agents and industrial toxic and hazardous gases, ensuring precise analysis results.

Fast Response Time: It takes only 2 to 15 seconds to quickly detect the presence of hazardous substances, allowing you to take prompt action.

Strong Interference Resistance: SOLAFACT 800 has excellent interference resistance capabilities, able to handle typical interference factors like smoke, wood smoke, and engine exhaust.

Expandable Detection Library: The standard substance library can be upgraded, allowing you to expand the types of substances detected as needed.

Nuclear Radiation Detection Option: Depending on your requirements, you can choose to add a nuclear radiation detection module, further enhancing overall performance.

Wide Range of Application Fields, Multiple Safeguards

SOLAFACT 800 can be widely used in military anti-terrorism, public security, customs, counterterrorism, environmental monitoring, industrial production, petrochemicals, firefighting, health, and many other fields. Especially in high-risk industrial environments like refineries.