

Hospital Case Study - Our Solutions

SOLAFACT 800

Handheld Chemical Agent

Here are some of its unique features to ensure you can fully understand its advantages:

1. Advanced detection technology

SOLAFACT 800 adopts time-of-flight ion mobility spectrometry technology, array multi-sensing fusion technology and scintillator detection technology. The fusion of these technologies allows it to detect trace chemical agents, industrial toxic and harmful gases and radioactive pollution online, quickly and accurately. . This comprehensive performance is at the leading level among similar international products.

2. Light and compact, easy to operate

The SOLAFACT 800 is designed to be lightweight, compact and simple to operate, allowing hazmat team members to use it quickly and efficiently during field operations. No complicated training is required, you can get started easily.

3. High sensitivity and resolution

Our detectors have excellent sensitivity and can detect extremely low concentrations of harmful substances, such as sarin, with typical values up to 0.1mg/m³. In addition, its high resolution can accurately distinguish different types of chemical poisons and industrial toxic and harmful gases.

4. Quick response and strong anti-interference ability

SOLAFACT 800 can detect harmful substances in a short time (only 2 to 15 seconds), and has strong anti-interference ability, which can resist interference sources such as typical gun smoke, grass and wood smoke, and engine exhaust gas.

5. Optional nuclear radiation detection module

Based on demand, our products can be equipped with optional nuclear radiation detection modules to provide you with more comprehensive dangerous goods detection capabilities.

6. Wide range of applications

SOLAFACT 800 can be widely used in military counter-terrorism, emergency security, environmental monitoring, industrial production, petrochemical industry, customs, fire protection, sanitation and other fields. Its uses include on-site detection of chemical warfare agents, environmental monitoring, emergency response to leaks of highly toxic and dangerous goods, Industrial odor, toxic gas detection, etc.

7. Long battery life and durability

SOLAFACT 800 is equipped with a long battery life, ensuring continuous use during extended

field operations. At the same time, its durability can withstand extreme temperatures, shock, and exposure to hazardous materials, maintaining long-term reliability.

8. Advanced features including real-time data

Our detectors not only provide real-time data, but also help your team quickly assess risk and take appropriate mitigation measures. This includes details such as the nature, concentration and behavior of hazardous substances, ensuring you are fully informed to make informed decisions.

9. Multi-sensor function

SOLAFACT 800 is equipped with multiple sensors capable of detecting multiple types of hazardous materials, increasing the accuracy and comprehensiveness of identifying and assessing threats. No matter what dangerous situation you face, our products are up to the task.

We are convinced that the SOLAFACT 800 handheld chemical agent detector is the best choice to meet the needs of your hazardous materials team. Its excellent performance and advanced technology will provide your team with unparalleled support.

SOLAFACT 810

Portable Toxic and Hazardous Substance Detector

1. Lightweight and compact, easy to carry

The SOLAFACT 810's compact design makes it the epitome of portability. Its lightweight appearance and compact size make it easy for your team members to carry it with them, keeping them ready no matter where they go.

2. Intelligent data real-time monitoring

Not only providing real-time data, SOLAFACT 810 also quickly and accurately analyzes the nature, concentration and behavior of hazardous substances through intelligent identification algorithms. This helps your team quickly assess risks in the field and take necessary steps to protect people and the environment.

3. Multi-sensor technology improves comprehensiveness

SOLAFACT 810's multi-sensor technology enables it to detect multiple types of hazardous substances, including chemical warfare agents, toxic and hazardous gases, highly toxic chemicals and flammable and explosive hazardous materials. This increases the accuracy and comprehensiveness of your team's identification of potential threats.

4. Accuracy and reliability guaranteed

To ensure accuracy, the SOLAFACT 810 is calibrated regularly and offers easy maintenance procedures to ensure continued high performance.

5. Professional training, confident operation

We provide comprehensive training programs, including equipment operation and data interpretation, to ensure your team members can confidently operate and use detectors in hazardous situations, increasing the level of confidence in responding to risks.

6. Long-lasting battery life for long runs

The long battery life of the SOLAFAC 810 ensures continuous use during extended field work without the need for frequent charging.

7. Seamless communication system integration

Our detectors integrate seamlessly with communications systems to enable real-time data sharing and coordination, ensuring efficient communication between team members and incident command centers for rapid response to hazardous situations.

8. Excellent durability in harsh field conditions

SOLAFAC 810 offers exceptional durability and is able to withstand impact and exposure to hazardous materials, ensuring superior performance and reliability in any harsh field conditions.

SOLAFAC 560

An essential tool to ensure hospital safety: portable chemical agent detector

In today's evolving security challenges, the SOLAFAC 560 portable chemical agent detector is an indispensable choice for maintaining hospital security.

1. Multiple functions, fearless: SOLAFAC 560 uses full-spectrum flame photometry to quickly and accurately detect more than a hundred chemical warfare agents, toxic industrial substances and flammable gases. Whether it is solid, liquid or gaseous substances, you can have them all at your fingertips. Ultra-high sensitivity: The instrument has extraordinary detection sensitivity, and the detection of phosphorus, sulfur, arsenic and other substances can reach the ppb level, ensuring that no tiny threats are missed.

2. Instant response: In critical moments, time is of the essence. SOLAFAC 560 detects potential threats in just 10 seconds and can resume immediately for the next round of inspections without delay, even after detecting high concentrations of chemicals.

3. Lightweight and easy to use: The device is small and lightweight, so you can carry it with you at any time. One-click start, no complicated settings and calibration required, even first-time users can get started easily. 100% safe: SOLAFAC 560 does not involve any radioactive sources, eliminating additional environmental approval steps and making it more convenient to use.

4. Widely applicable: Whether it is national security, military intelligence, anti-terrorism prevention, chemical crisis response, industrial production, environmental monitoring or fire safety, SOLAFAC 560 can do it.

In the hospital environment, SOLAFAC 560 is an indispensable guardian angel. It ensures hospital safety by monitoring air quality and detecting potentially harmful or toxic substances. Its responsibilities also include identifying potential threats and preventing potential terrorist attacks to ensure the maintenance of a safe environment.

Don't forget about safety, choose SOLAFAC 560 portable chemical agent detector, it is the first choice for maintaining hospital security. Our equipment is powerful, easy to operate and will provide your hospital with the highest level of security. Buy SOLAFAC 560 and get excellent performance and safety guarantee, you will never regret it.

SOLAFAC 110

Your Environmental Radiation Monitoring Solution

The SOLAFAC 110 is a gamma detector specifically designed for environmental radiation monitoring. It boasts exceptional performance and incorporates cutting-edge technologies to ensure timely detection and response to potential radiation hazards.

Revolutionary Use of TTC Technology This detector introduces the revolutionary Time-to-Count (TTC) technology, allowing it to measure dose rates across multiple orders of magnitude using a single Geiger-Muller counter. This unmatched precision and flexibility enable you to gain a more accurate understanding of gamma radiation distribution patterns.

High Radiation Resistance

The SOLAFAC 110 detector not only operates under normal conditions but also continues to function after nuclear incidents, providing valuable incident information. This feature is crucial, especially for radiation protection in critical locations such as nuclear power plants, nuclear facilities, and military nuclear installations.

Wide Range of Applications

The SOLAFAC 110 finds extensive applications in robotics, unmanned aerial vehicles (UAVs), and radiation protection vehicles. It is also well-suited for use in nuclear power plants, nuclear facilities, and radiological healthcare. Its versatility and reliability make it an ideal choice for radiation monitoring.

Key Technological Features

Utilizes Time-to-Count (TTC) technology for exceptional measurement precision.
Geiger-Muller counters with long lifespans, reducing the need for frequent replacements.
Wide measurement range with high linearity, suitable for diverse environments.
High stability and minimal false alarm rates, ensuring dependable radiation monitoring data.

The SOLAFAC 110 is an advanced, reliable, and high-performance gamma detector suitable for various environmental radiation monitoring needs. If you prioritize

environmental and personnel safety, this product should be your top choice. I encourage you to consider incorporating the SOLAFAC 110 into your radiation monitoring toolkit to ensure the continuous safety and control of your environment.

SOLAFAC 130

Neutron Measurement Instrument is designed to measure neutron dose equivalents in the surrounding environment. Its spherical design complies with the recommendations of the International Commission on Radiological Protection (ICRP), offering excellent energy and angular response. This instrument can serve as both a portable and fixed measurement device.

Key Features of SOLAFAC 130:

Wide Energy Response Range with Energy Compensation: SOLAFAC 130 boasts a wide energy response range and incorporates energy compensation technology to ensure accurate measurements.

Energy Linearity Assured: Through a combination of MCNP simulations and rigorous testing, the instrument guarantees energy linearity, providing precise neutron dose equivalent measurements.

High Environmental Adaptability: SOLAFAC 130 demonstrates outstanding adaptability to various environmental conditions while maintaining an extremely low false alarm rate.

Lightweight and Portable Design: The instrument's lightweight and ergonomic design outperforms traditional neutron dose rate meters, making it convenient and easy to use.

Applications of SOLAFAC 130:

The SOLAFAC 130 Neutron Measurement Instrument finds extensive applications across various domains, including but not limited to:

Reactor Facilities: Ideal for monitoring neutron dose equivalents in and around reactor facilities.

Nuclear Fuel Cycle Processes: Valuable for measuring neutron radiation in nuclear fuel cycle applications.

Spent Fuel Transport and Recycling: Ensures the safety of handling spent fuel during transportation and recycling.

Nuclear Biohazard Protection Systems: Crucial for monitoring neutron radiation levels in nuclear biohazard protection systems.

If you are seeking a reliable neutron measurement instrument for radiation detection and monitoring, SOLAFAC 130 is the ideal choice. Its advanced technology, wide range of applications, and lightweight design make it a valuable tool for ensuring safety and compliance in various environments

SOLAFACT 120

Isotope Identifier is a cutting-edge solution for the rapid detection and identification of radioactive materials. It is designed to respond swiftly to radiological threats, including illegal transportation and radiological dispersion devices. This versatile instrument is invaluable for law enforcement, hazardous material detection, and other critical applications.

Key Features of SOLAFACT 120:

Large-Volume Detector and Passive Spectral Stabilization: SOLAFACT 120 combines a large-volume detector with passive spectral stabilization algorithms. This design is specifically tailored for use in post-nuclear accident environments, ensuring accuracy and stability. Its robust construction and user-friendly interface make it ideal for field applications, including mobile measurements.

Identification of Multiple Radioactive Nuclides: SOLAFACT 120 excels at identifying numerous radioactive nuclides, spanning medical, industrial, natural, and special nuclear materials. The instrument is customizable, allowing users to expand the nuclide library to meet their specific needs.

Temperature Adaptability and Low Temperature Drift: SOLAFACT 120 demonstrates remarkable temperature adaptability and minimal temperature drift. The generous crystal size ensures exceptional sensitivity.

Rapid Response Time: With a response time of under 30 seconds, SOLAFACT 120 delivers nuclide information swiftly, facilitating quick decision-making in critical situations.

Compact and Portable: SOLAFACT 120 boasts a compact overall design, making it highly portable and convenient to transport to various locations.

SOLAFACT 120 Algorithm Processing:

Utilizes passive spectral stabilization and calibration technology to acquire spectra continuously and stably without the need for on-site calibration.

Employs a background suppression algorithm to analyze spectral shapes continuously, eliminating false alarms caused by background fluctuations.

Utilizes algorithms to discriminate natural and medical radionuclides, allowing simultaneous classification and identification of up to four nuclides.

Applications of SOLAFACT 120:

The SOLAFACT 120 Isotope Identifier finds extensive applications in various fields, including use by first responders, border and customs officials, law enforcement personnel, critical infrastructure protection, and investigations at nuclear accident scenes.

If you require a high-quality isotope identifier for radiation detection and identification, SOLAFACT 120 stands as an excellent choice. Its advanced technology, rugged features, and portability make it a powerful tool for ensuring safety and security.