Application
Permanent compressed breathing air quality monitoring

Goal
Maintaining high compressed breathing air quality standards

Sector
Scientific Research and Development

Customer
Institute of Medical Biology Southwest of China

Maintaining High Compressed Breathing Air Quality Standards for "Life Support System"

In the Institute of Medical Biology

Overview

The Research Institute of Medical Biology (RIMB), a pioneering institution in medical research and healthcare innovation in southwest China, faced a critical challenge in maintaining compliance with the stringent GB/T 31975 standard for breathing air quality.

Operating life support systems essential to the well-being of its researchers, RIMB required a comprehensive solution to continuously monitor the quality of compressed breathing air in both its clean room facilities and for researchers conducting demanding experiments wearing special breathing air-supplied clothing.

Objective

GB/T 31975, the Chinese national standard for compressed breathing air quality, sets stringent requirements to ensure the safety and health of researchers conducting challenging experiments.

To meet these standards, RIMB required a monitoring solution that could provide continuous real-time data, immediate alerts for deviations and facilitate compliance reporting.

Approach

The RIMB chose the SUTO iTEC S606 Stationary Breathing Air Monitor, a solution tailored for continuous monitoring of compressed breathing air quality. With advanced sensors for O_2, CO_2, CO, dew point, oil and particle content, the S606 meets the specific requirements of GB/T 31975 for life support systems. Its application extended to both the clean room and the specialized breathing-air-supplied clothing worn by researchers.

If the S606 detects any deviation from the specified parameters - whether an increase or decrease - it immediately triggers an alarm. This instant alert system enables researchers and facility staff to respond quickly to breathing air quality issues.

The ability to receive real-time notifications allows for quick and effective intervention, ensuring that any potential concerns are addressed promptly and breathing air quality is maintained within defined standards.

Products In Use

S606 Stationary Breathing Air Quality Monitor for 24/7 Quality Measurement

Results

The continuous monitoring enables the Research Institute of Medical Biology to:

- **GB/T 31975 Compliance:** Maintaining compliance with national standards for compressed breathing air quality, ensuring the safety and well-being of the researchers and cleanroom employees.
- **Operational Efficiency:** Optimizing the compressed breathing air system, reducing downtime and maintenance costs through early detection of problems.
- **Documentation for Audits:** Compliance reports generated by the S606 provided robust documentation for audits, demonstrating RIMB's commitment to meeting national standards.
- **Enhanced Security:** Continuous monitoring and instant alerts ensured that any deviations from GB/T 31975 standards were addressed promptly, enhancing the safety of life support systems.

Conclusion

The SUTO iTEC S606 Stationary Breathing Air Monitor proved to be an essential part of RIMB's efforts to maintain high standards of compressed air quality in accordance with GB/T 31975.

By implementing this solution, RIMB has successfully met the challenges posed by the national standards and ensured the safety and well-being of researchers in high-demanding experiments.

The partnership with SUTO iTECs underlines RIMB's commitment to providing excellence in medical research and healthcare.

Be smart. **Measure it.**

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