

## Application

Using compressed air quality monitoring to meet ISO 8573-1 compressed air quality classes

## Goal

Ensuring compressed air quality standards according to ISO 8573-1

## Sector

Photovoltaic Industry

## Customer

Lianyungang Taiwa New Energy Co., LTD



# Ensuring High Compressed Air Quality Standards in Accordance with the ISO 8573-1

In the photovoltaic manufacturing industry

## Overview

Lianyungang Taiwa New Energy Co., LTD, a solar cell manufacturer, confronted challenges associated with insufficient compressed air and nitrogen supply in their production process.

Compressed air serves as the primary source for powering production equipment, while nitrogen plays a crucial role in the manufacturing of solar cells. It is employed to establish a pure, oxygen-free atmosphere, preventing impurities and oxygen from compromising the integrity of photovoltaic materials.

SUTO iTEC's S600 Portable Compressed Air Purity Analyzer proved to be the ideal solution for immediately identifying and resolving problems affecting the quality of compressed air and nitrogen.

## Meet Strict ISO 8573 Standards

The main objectives were to confirm that the compressed air and nitrogen supply meet the strict ISO 8573 standards and to establish a real-time monitoring solution to quickly react to impurities in the gas system.

This was essential to address constant complaints from the production departments about the poor quality of the compressed air and nitrogen, which was having a detrimental effect on product output and quality.

## Real-time Data Across the Factory

Previously, Lianyungang Taiwa New Energy Co, LTD relied on third party compressed air testing services with over 10 monitoring points to measure gas quality, which resulted in significant time and cost effects.

The introduction of SUTO iTEC's S600 Portable Compressed Air Purity Analyzer enabled the photovoltaic company to perform in-house testing at the point-of-use.

This capability allowed plant operators to quickly identify contamination problems in the production or transportation process, resulting in faster problem resolution and less downtime.

## Products In Use

S600 Portable Compressed Air Purity Analyzer with Isokinetic Sampling Device



## Results

### 100% Compressed Air Quality Assurance:

The implementation of the S600 resulted in a comprehensive and reliable assurance of compressed air quality, meeting the stringent standards set by ISO 8573-1.

### Cost Savings:

By eliminating the need for third-party testing services, the company experienced significant cost savings. The S600 not only provided a more efficient testing process but also contributed to financial efficiency.



## Role of S600 in Success

The SUTO iTEC S600 played a key role in achieving these goals. Its portability, real-time monitoring capabilities and ease of use enabled the company to take a proactive stance in managing compressed air quality.

The S600 not only validated compliance, but also enabled Lianyungang Taiwa New Energy Co, LTD to conduct regular on-site testing, ensuring continuous adherence to quality standards and preventing problems before they impacted production.

In essence, the S600 has become an indispensable tool for meeting and exceeding the company's compressed air quality control objectives in the photovoltaic industry.



Be smart. Measure it.