

Simultaneous online analysis of multiple gas components in production process

Our Product Introduction

for more products please visit us on spectralanalyser.com

Basic Information

- Place of Origin: CHINA
- Brand Name: JINSP
- Certification: CE ISO9001
- Model Number: RS2600
- Minimum Order Quantity: 1
- Price: Negotiable
- Packaging Details: Customized Packaging
- Delivery Time: 90-120 working days
- Payment Terms: T/T, Western Union
- Supply Ability: 5PCS/90-120 days



Product Specification

- Model Name: RS2600 Multi-gas Analyzer
- Laser Excitation Wavelength: $532 \pm 0.5 \text{ Nm}$
- Spectral Coverage: $200 \sim 4200 \text{ Cm}^{-1}$
- Analysis Time: 2 Seconds
- Weight: 40 Kg
- Measurement Method: Raman Spectroscopy

Gas Analysis for Multiple Industries RS2600 Multi-gas Analyzer

The JINSP® RS2600 multi-gas analyzer leverages the advanced technology of Raman spectroscopy to provide a comprehensive solution for detecting a wide range of gases. This state-of-the-art device is capable of identifying and analyzing various gas components in real-time, with the notable exception of noble gases. Its sophisticated design allows for the simultaneous online analysis of multiple gases, ensuring accurate and efficient monitoring of gas mixtures in a variety of industrial and scientific applications. Whether it's for environmental monitoring, process control, or research purposes, the JINSP® RS2600 delivers precise and reliable results, making it an indispensable tool for professionals who require detailed gas analysis.

- * Petrochemical industry: alkane, alkene and alkyne gases such as CH₄, C₂H₆, C₃H₈, C₂H₄, etc.
- * Fluorine chemical industry: corrosive gases such as F₂, BF₃, PF₅, Cl₂, HCl, HF, etc.
- * Metallurgical industry: N₂, H₂, O₂, CO₂, CO, etc.

Specifications

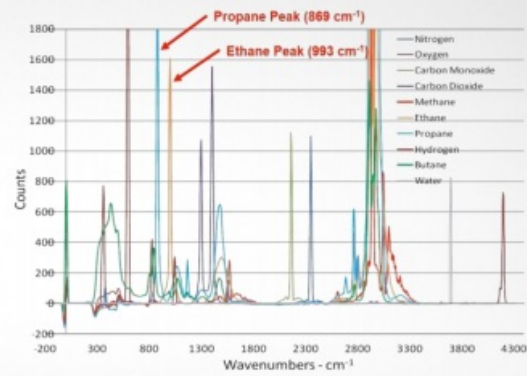
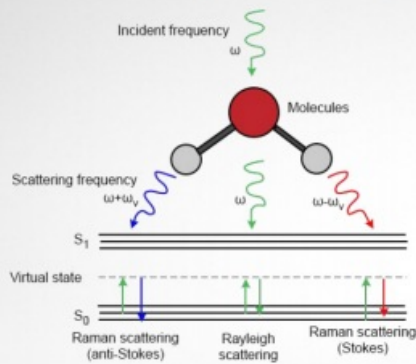
Components	N ₂ , H ₂ , O ₂ , CO, CO ₂ , H ₂ S, CmHn, etc.
Analysis time	2 seconds
Measurement uncertainty	≤0.2%
Laser excitation wavelength	532 ± 0.5 nm
Spectral coverage	200 ~ 4200 cm ⁻¹
Spectral resolution	≤8 cm ⁻¹ at full spectral range
Air circuit interface	6 mm standard tube fitting (3 mm, 1/8", and 1/4" are optional)
Input voltage	100~240 VAC,50~60 Hz
Sample gas temperature	-50 ~ 40 °C
Sample gas pressure	1.0 MPa
Unit dimensions	485 mm (Width) × 350 mm (Height) × 600 mm (Depth)
Weight	40 kg

Technical highlights

- * Non-destructive gas analysis: Analytes including homonuclear diatomic gases(F₂, Cl₂, etc.) and isotopic gases (H₂, D₂, T₂, etc.)
- * Short detection time: Data acquired in seconds
- * Minimal maintenance: Resistance to high pressure, direct detection without consumables (chromatographic column or carrier gas)
- * Wide detection range: LOD at ppm level, detection range up to 100%

Application:1.Monitoring of F₂, N₂, HF and other components in the fluorination process

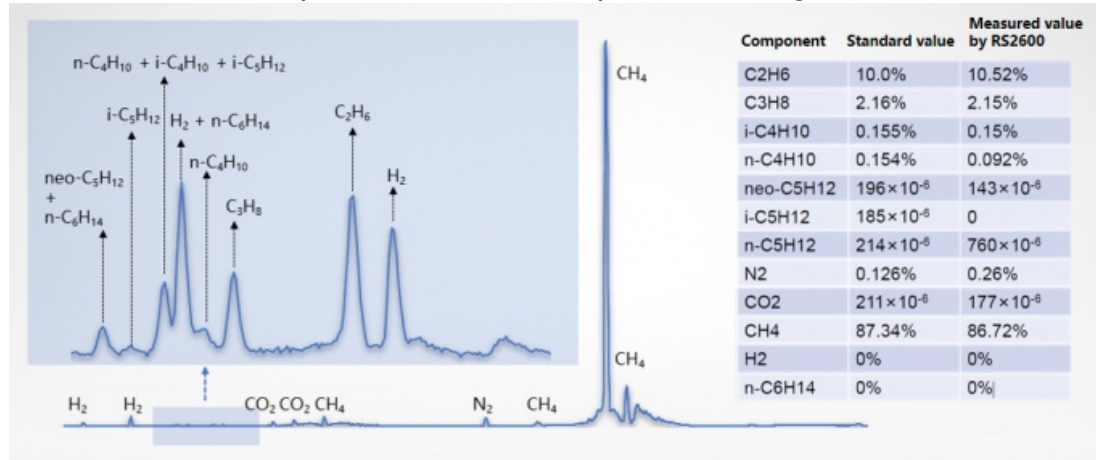
Powerful analytical technique for ALL molecules



- Different chemical substances have their **unique Raman spectra**
- Qualitative analysis based on characteristic peak positions (wave numbers)
- Quantitative analysis based on characteristic peak intensity

2. Quantitative analysis of different Elements in Petrochemical Natural Gas

Effective identification and quantification of various components in natural gas mixtures within 2 seconds



3. Field of application



Natural gas industry



Fluorine chemical industry



Metallurgical industry



Electronic special gas



Coal chemical industry

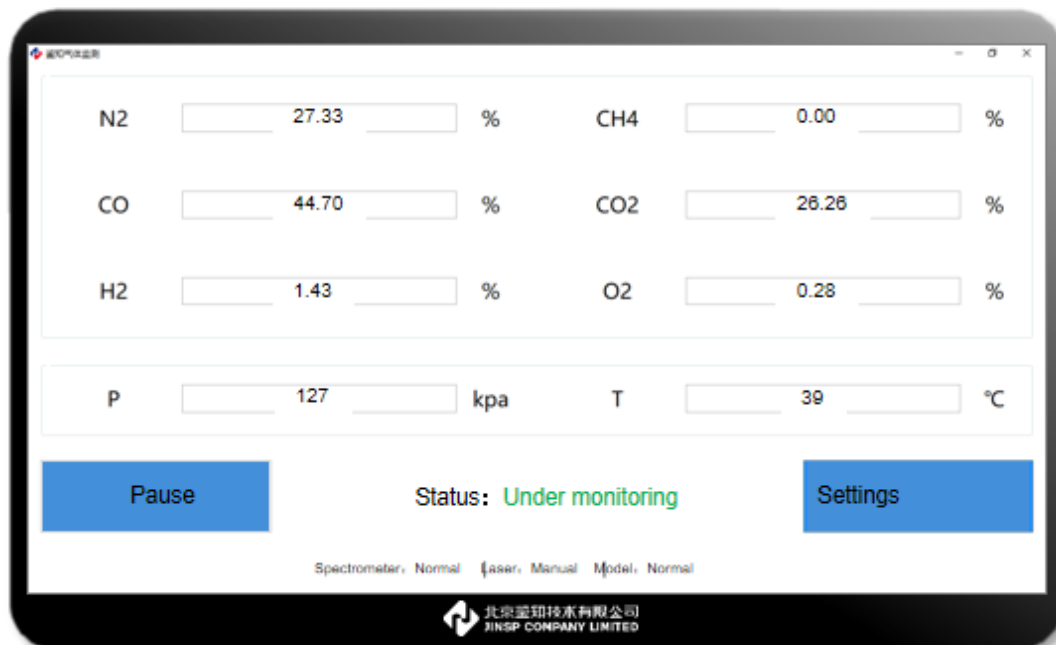


Pharmaceutical chemical industry

Gas Analyzer Features

1. By constructing quantitative models of multiple standard curves and combining them with chemometric methods, the correlation between spectral signals and the content of various component substances can be effectively established. This comprehensive method not only improves the accuracy of analysis, but also enables the simultaneous processing and analysis of multiple different chemical components, providing a powerful tool for quantitative analysis of complex samples.

2. Even in the case of changes in sample gas pressure or fluctuations in testing conditions, this quantitative analysis method can still maintain the accuracy of the results. This is due to its high stability and robustness, ensuring consistent analysis results in any environment, providing reliable data support for scientific research and industrial applications.

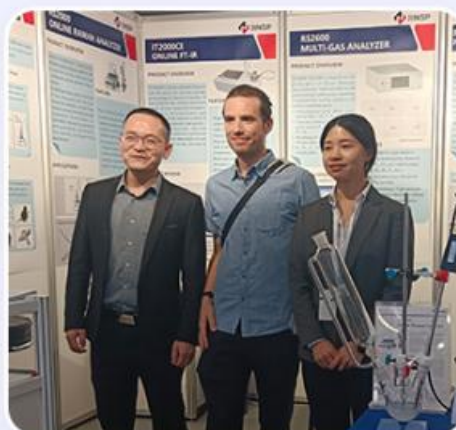


JINSP Company Limited originates from Tsinghua University and has 17 years of experiences in developing spectroscopic technology. As a leading supplier of spectroscopic technology, JINSP Technology offers over twenty spectroscopic products across various fields, including pharmaceutical and chemical industries, public security and customs.

Company Profile



Exhibition



Certifications



FAQ

Q1: This is the first time I use, is it easy to operate?

A1: We will send you manual and guide video in English, it can teach you how to operate the spectrometer. Also our technicians will offer professional technical operation meetings.

Q2: Can you offer an operation training?

A2: Your technicians can come to our factory for a training. Jinsp technical engineers can go to your place for local support. (installation, training, debugging, maintenance)

Q3: How to receive a best price in the shortest time?

A3: When you send us an inquiry, please kindly offer details with wavelength, detector, effective pixels, focal length and so on. We will send you quotation with details soon to your email.

Q4: If the spectrometer has a problem in my place, how could I do?

A4: The spectrometer has one year warranty. If it breaks down, our technician will figure out what the problem maybe, according to client's feedback. We can repair for free within one year warranty.



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