RS2600 Multi-gas Analyzer Comprehensive Gas Analysis With Wide Spectral Coverage Ppm Level

Our Product Introduction

Basic Information

- Place of Origin: CHINA
- Brand Name: JINSP
- Certification: CE ISO9001
- Model Number: RS2600
- Minimum Order Quantity: 1
- Price: Negotiable
- Packaging Details: International Shipping Package
- Delivery Time: 80-110 working days
- Payment Terms: T/T, Western Union
- Supply Ability: 50 PCS/90-120 days

Product Specification

- Model Name: RS2600 Multi-gas Analyzer
- Laser Excitation Wavelength: 532 ± 0.5 Nm
- Spectral Coverage: 200 ~ 4200 Cm-1
- Analysis Time: 2 Seconds
- Detection Limit: Ppm Level
- Measurement Time: Real-time
- Highlight: **Comprehensive Multi-gas Analyzer**, **Wide Spectral Coverage Multi-gas Analyzer**, **ppm level Multi-gas Analyzer**

Our Product Introduction

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Product Description

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: This sector deals with various types of gases including alkanes, alkenes, and alkynes. Alkanes are saturated hydrocarbons with single bonds, such as methane (CH4), ethane (C2H6), and propane (C3H8). Alkenes, on the other hand, are unsaturated hydrocarbons with at least one double bond, like ethylene (C2H4). These gases play a crucial role in the production of plastics, fibers, solvents, and other essential chemicals.

Fluorine chemical industry: This industry involves the handling of highly corrosive gases. Fluorine (F2) is a highly reactive element that can form compounds with almost all other elements. Boron trifluoride (BF3) and phosphorus pentafluoride (PF5) are examples of inorganic fluorides that are used in various industrial processes. Chlorine (Cl2), hydrogen chloride (HCl), and hydrogen fluoride (HF) are also part of this category, and they are utilized in the production of a wide range of chemicals, including polymers, refrigerants, and electronic components.

Metallurgical industry: The metallurgical industry relies on several gases to facilitate various processes. Nitrogen (N2) is used for inerting and purging to prevent oxidation during metal production. Hydrogen (H2) is often employed in annealing and other heat treatment processes due to its ability to reduce oxides. Oxygen (O2) is crucial for combustion processes, while carbon dioxide (CO2) and carbon monoxide (CO) are involved in the reduction and refining of metals, as well as in the production of steel and other alloys.

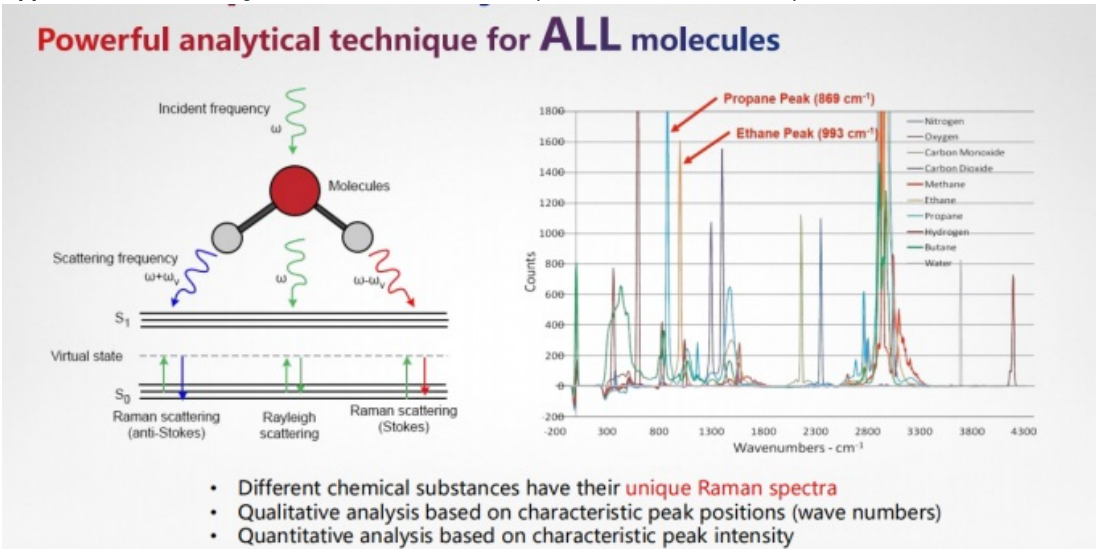
Technical Specifications:

Components	N2, H2, O2, CO, CO2, H2S, 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 ºC
Sample gas pressure	1.0 MPa
Unit dimensions	485 mm (Width) × 350 mm (Height) × 600 mm (Depth)
Weight	40 kg

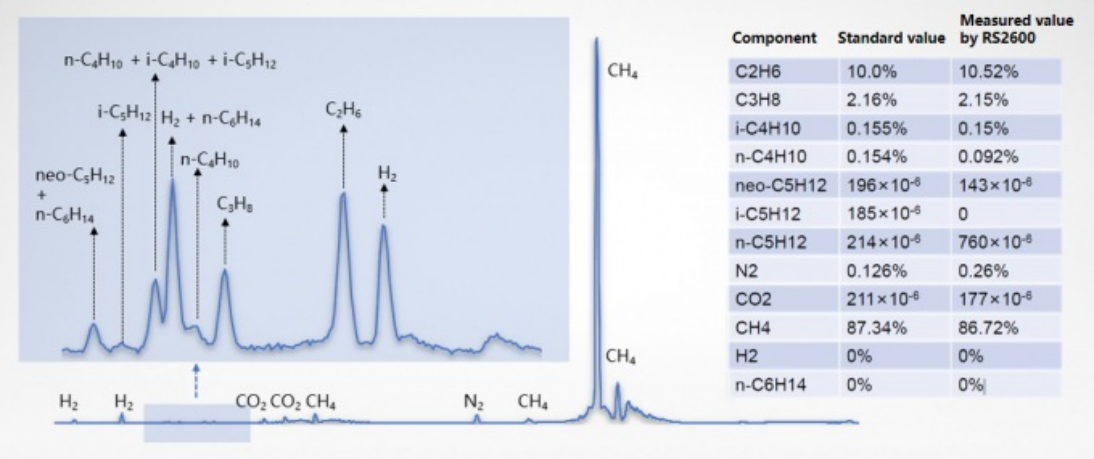
Technical highlights:

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



Application: 2.Quantitative analysis of different Elements in Petrochemical Natural Gas
Effective identification and quantification of various components in natural gas mixtures within 2 seconds



Component	Standard value	Measured value by RS2600
C2H6	10.0%	10.52%
C3H8	2.16%	2.15%
i-C4H10	0.155%	0.15%
n-C4H10	0.154%	0.092%
neo-C5H12	196×10^{-6}	143×10^{-6}
i-C5H12	185×10^{-6}	0
n-C5H12	214×10^{-6}	760×10^{-6}
N2	0.126%	0.26%
CO2	211×10^{-6}	177×10^{-6}
CH4	87.34%	86.72%
H2	0%	0%
n-C6H14	0%	0%

Field of application:


Natural gas industry


Fluorine chemical industry


Metallurgical industry


Electronic special gas


Coal chemical industry


Pharmaceutical chemical industry

Gas Analyzer Features:

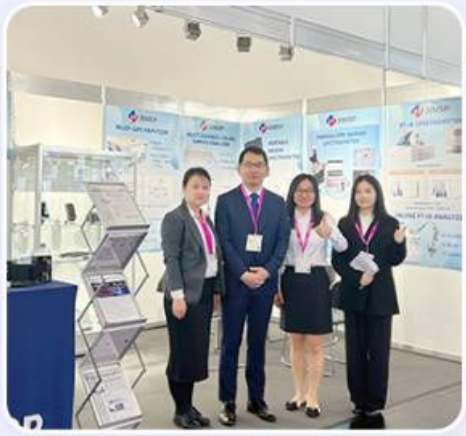
By constructing quantitative models of multiple standard curves and combining them with chemometric methods, the correlation between spectral signals and the content of various component substances can be effectively established. This comprehensive method not only improves the accuracy of analysis, but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

Company Introduction:

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 vedio in English, it can teach you how to operate the spectrometer. Also our technicians will offer professional tecnical opearation meetings.
Q2: Can you offer a 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 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.

JINSP Company Ltd.

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