RS2600 Multi-gas Analyzer for Petrochemical Fluorine and Metallurgical Industries

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: 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 ± 0.5 Nm
- Spectral Coverage: 200 ~ 4200 Cm-1
- Analysis Time: 2 Seconds
- Power Supply: AC 100-240V, 50/60Hz
- Sampling Method: In-situ Flow Cell
- Highlight: **Fluorine Industries Multi-gas Analyzer**, **Petrochemical Industries Multi-gas Analyzer**, **Metallurgical Industries Multi-gas Analyzer**

Product Description

Gas Analysis for Multiple Industries RS2600 Multi-gas Analyzer

JINSP® RS2600 multi-gas analyzer is based on Raman spectroscopy and can detect all gases except noble gases,enabling simultaneous online analysis of multiple gases including:

*** 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	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

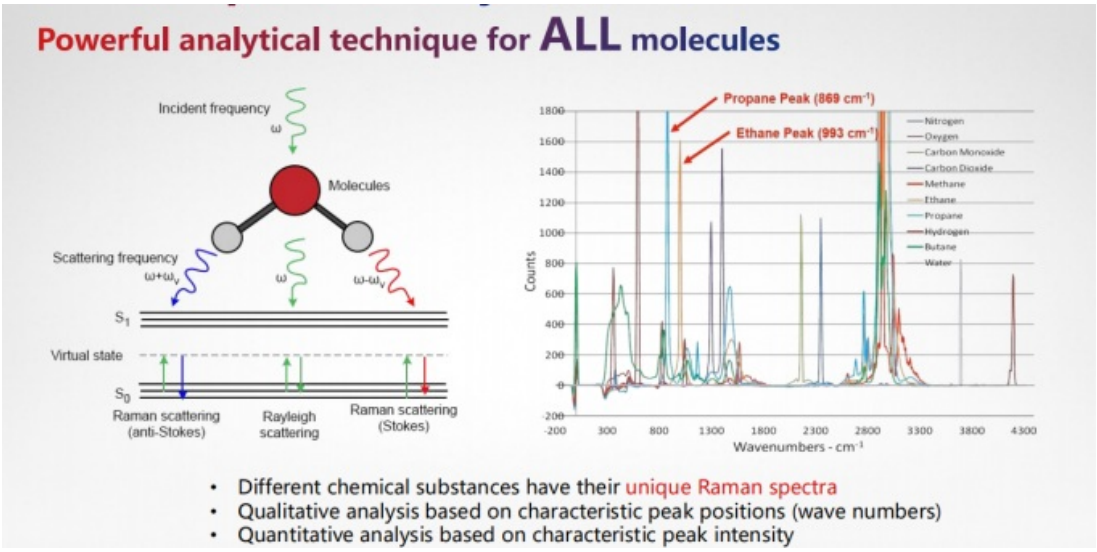
Non-destructive gas analysis is a technique that allows for the examination of gas samples without altering their composition or structure. This method is particularly useful for analyzing analytes such as homonuclear diatomic gases, which include fluorine (F2), chlorine (Cl2), and others. Additionally, it is effective for isotopic gases like hydrogen (H2), deuterium (D2), and tritium (T2). These gases can be studied in their natural state, preserving their integrity for further analysis or use.

One of the significant advantages of this analytical approach is the short detection time. Data acquisition can be completed in mere seconds, which is crucial for applications requiring rapid results. This speed allows for real-time monitoring and immediate decision-making in various industries, such as environmental monitoring, industrial process control, and safety assessments.

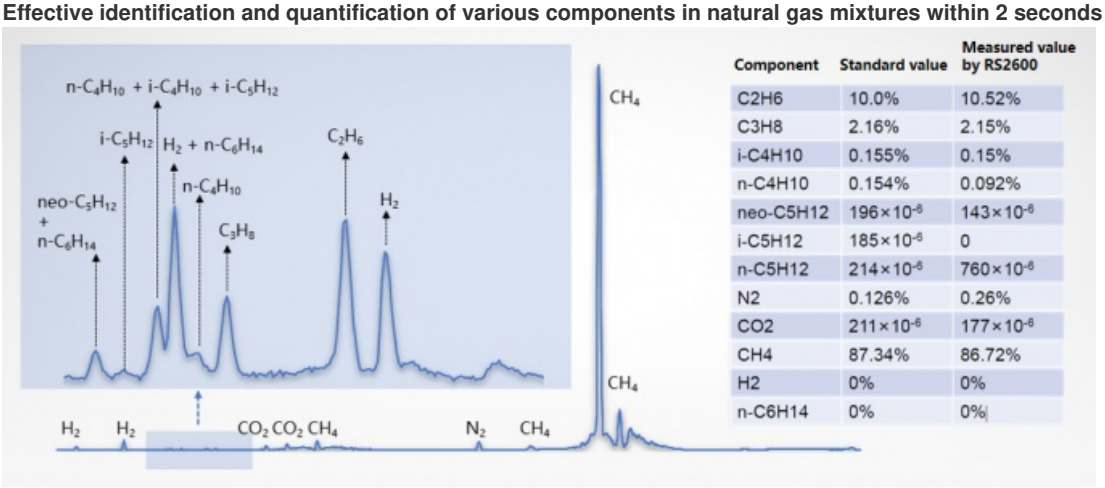
Another key benefit is the minimal maintenance required for the equipment used in non-destructive gas analysis. These systems are designed to withstand high-pressure environments, ensuring reliable performance even in challenging conditions. Furthermore, they enable direct detection of gases without the need for consumables such as chromatographic columns or carrier gases. This not only reduces operational costs but also simplifies the analytical process, making it more efficient and user-friendly.

The wide detection range of non-destructive gas analysis is another noteworthy feature. The method can detect gases at levels as low as parts per million (ppm), making it highly sensitive and suitable for trace analysis. At the same time, it is versatile enough to handle high concentrations, with the detection range extending up to 100%. This broad spectrum of detection capabilities ensures that a wide variety of gas samples can be analyzed accurately, from very low to very high concentrations, without the need for multiple instruments or methods.

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

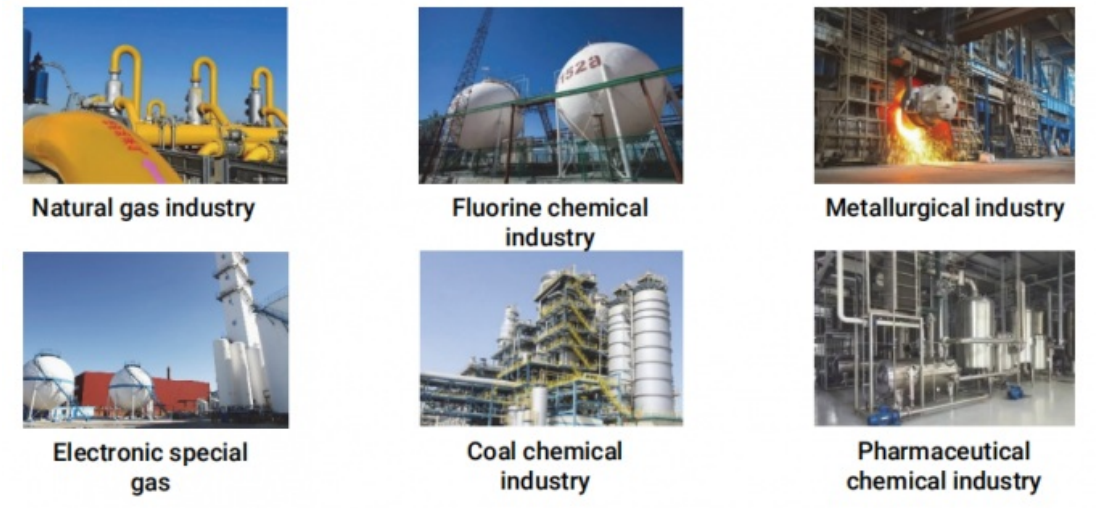


2.Quantitative analysis of different Elements in Petrochemical Natural Gas
Effective identification and quantification of various components in natural gas mixtures within 2 seconds



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%

3.Field of application



Gas Analyzer Features

1.Quantitative model of multiple standard curves,combined with the chemometric method, establishes the relationship between the spectral signal and the content of multi-component substances.
2.Changes in sample gas pressure and test conditions do not affect the accuracy of quantitative results

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.

Exhibition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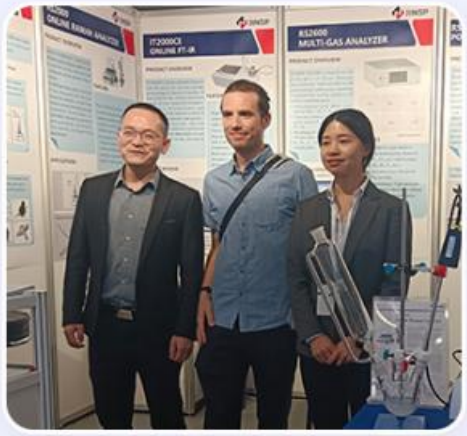
KS2600
MULTI-GAS ANALYZER

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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