Simultaneous Online Multi-gas Analyzer For Qualitative And Quantitative

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
- Sampling Method: In-situ Flow Cell
- Weight: 40 Kg
- Highlight: **Simultaneous Online Multi-gas Analyzer**, **Multi-gas Analyzer For Qualitative**, **Multi-gas Analyzer For Quantitative**

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: 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) and its related compounds such as hydrogen chloride (HCl) and hydrogen fluoride (HF) are also part of this industry. These gases are utilized in the production of polymers, refrigerants, and a wide range of other chemicals.

* 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 oxide scales. Oxygen (O2) is crucial for combustion processes, while carbon dioxide (CO2) and carbon monoxide (CO) are involved in the smelting and refining of metals. These gases help in the extraction, purification, and shaping of metals to produce alloys and other metallic products.

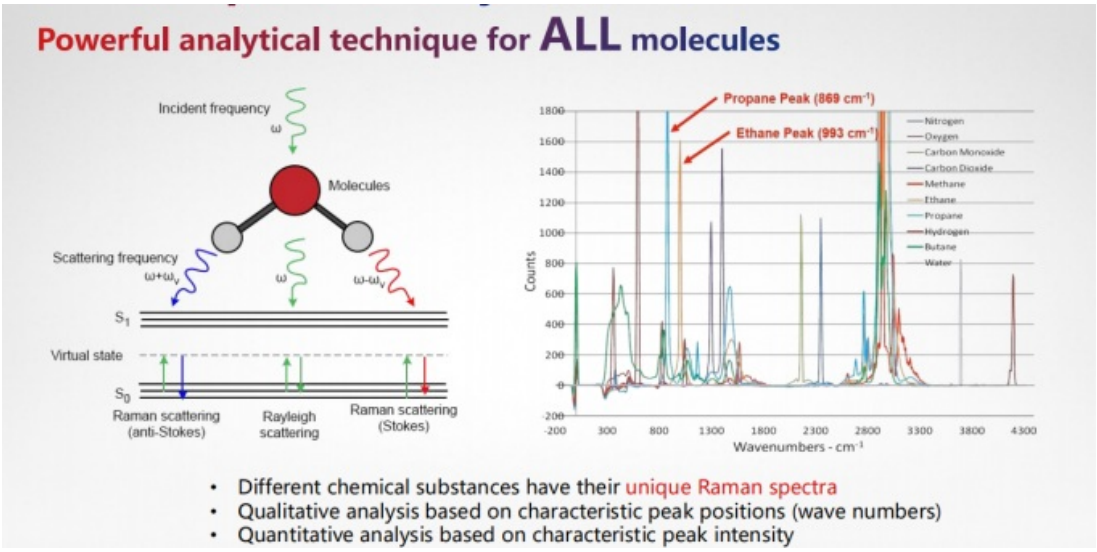
Specifications

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

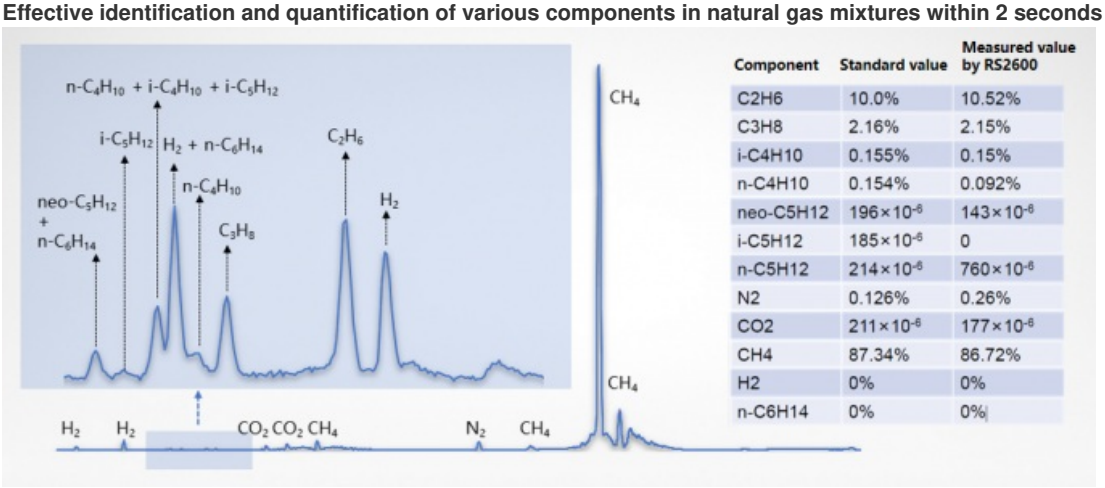
Technical highlights

* 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



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


Natural gas industry


Fluorine chemical industry


Metallurgical industry


Electronic special gas


Coal chemical industry


Pharmaceutical chemical industry

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

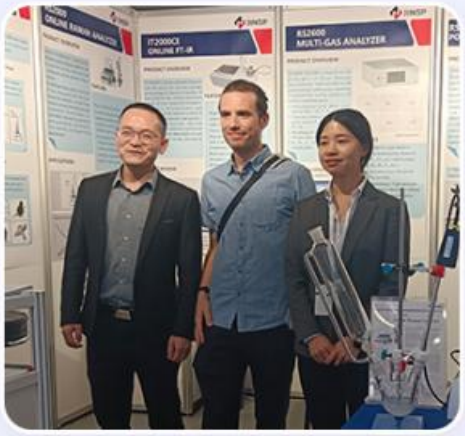
JINSP Company Limited, with its roots deeply embedded in the prestigious Tsinghua University, boasts an impressive track record of 17 years in the realm of spectroscopic technology development. As a pioneering and leading provider in this technological domain, JINSP Technology has successfully established itself as a trusted name in the industry. The company has meticulously crafted and introduced an extensive array of over twenty distinct spectroscopic products, each meticulously designed to cater to a diverse array of sectors. These sectors encompass the pharmaceutical industry, where precision and accuracy in chemical analysis are paramount, as well as the chemical industry, where the need for detailed compound identification and quality control is ever-present. Furthermore, JINSP Technology's innovative solutions extend their reach to the public security domain and customs authorities, where the ability to rapidly and reliably identify substances is crucial for maintaining safety and regulatory compliance. Through their cutting-edge technology and unwavering commitment to excellence, JINSP Company Limited continues to set new benchmarks in spectroscopic innovation, serving a broad spectrum of critical industries with their advanced products.

Company Profile

Exhibition


JINSP COMPANY LIMITED


JINSP COMPANY LIMITED
A3.144-1


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.

8618620854039 phoebeyu@jinsptech.com spectralanalyser.com

21st Floor, Building D, Tsinghua Tongfang Science and Technology Plaza, Haidian District, Beijing China