

## High Applicability Industrial Process Online Multi-Gas Analyzer 532nm Laser Raman Spectroscopy Device

Our Product Introduction

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### Basic Information

- Place of Origin: CHINA
- Brand Name: JINSP
- Certification: CE ISO9001
- Model Number: RS2600PAT
- Minimum Order Quantity: 1
- Price: Negotiable
- Packaging Details: International Shipping Package
- Delivery Time: 90-120 working days
- Payment Terms: TT
- Supply Ability: 50 PCS/90-120 days



### Product Specification

- Laser Wavelength: 532nm
- Spectral Range: 200 ~ 4200 Cm-1
- Resolution:  $\leq 8$  Cm-1 At Full Spectral Range
- Power Supply: 100 ~ 240 VAC 50 ~ 60 Hz
- Analysis Time: 2 Seconds
- Explosion Protection Rating (Main Unit): ExdbebibmbpxbIICT4Gb / ExtbibmbIIICT135 Db
- Measurement Uncertainty:  $\leq 0.2\%$
- Sample gas pressure: 1.0MPa
- Highlight: **High Applicability Online Multi-Gas Analyzer, 532nm Laser Raman Spectroscopy Device, Industrial Process Online Multi-Gas Analyzer**

## Product Description

### RS2600PAT Online Raman Multi-Gas Analyzer

JINSP® RS2600PAT multi-gas analyzer is based on Raman spectroscopy and can detect all gases except noble gases, enabling simultaneous online analysis of multiple gases.

It is able to detect the following multiple gases with a detection range from ppm to 100%:

Petrochemical industry: alkane, alkene and alkyne gases such as CH<sub>4</sub>, C<sub>2</sub>H<sub>6</sub>, C<sub>3</sub>H<sub>8</sub>, C<sub>2</sub>H<sub>4</sub>, etc.

Fluorine chemical industry: corrosive gases such as F<sub>2</sub>, BF<sub>3</sub>, PF<sub>5</sub>, Cl<sub>2</sub>, HCl, HF, etc.

Metallurgical industry: N<sub>2</sub>, H<sub>2</sub>, O<sub>2</sub>, CO<sub>2</sub>, CO, etc

#### Technical Specifications:

Components	N <sub>2</sub> , H <sub>2</sub> , O <sub>2</sub> , CO, CO <sub>2</sub> , H <sub>2</sub> S, CmHn, etc.
Analysis time	2 seconds
Measurement uncertainty	≤0.2%
Laser excitation wavelength	532 ± 0.5 nm
Spectral coverage	200 ~ 4200 cm <sup>-1</sup>
Spectral resolution	≤8 cm <sup>-1</sup> at full spectral range
Air circuit interface	6 mm standard tube fitting (3 mm, 1/8", and 1/4" are optional)
Explosion-proof	ExdbebibmbpxbIICT4Gb / ExtbimbmbIICT135°CDb
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:

Multi-component: simultaneous online analysis of multiple gases

Universal: >500 types of gases are detectable except noble gases

No need for pressure control: Quantification is not affected by changes in sample gas pressure

Rapid response: Complete a single detection within seconds

Wide quantitative range: detection limit is as low as ppm level, and the measurement range can be as high as 100%

# Multi-Gas Analyzer **RS2600PAT**



# Technical Highlights



## Non-Destructive Gas Analysis

>500 types of gases are detectable, including diatomic gases ( $F_2$ ,  $Cl_2$ , etc.) and isotopic gases ( $H_2$ ,  $D_2$ ,  $T_2$ , etc.)

## Short Detection Time

Complete a single detection within seconds

## Low Maintenance

Withstands high pressure, direct detection with no consumables (Chromatographic column, Carrier gas)

## Wide Quantitative Range

detection limit is as low as ppm level, and the measurement range can be as high as 100%

# Field of Application

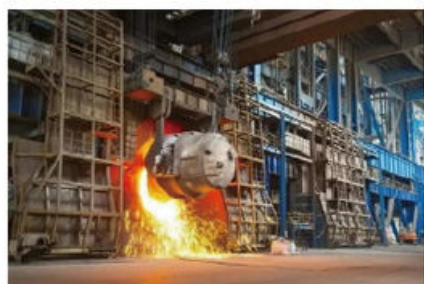
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Natural gas industry



Fluorine chemical industry



Metallurgical industry



Electronic special gas



Coal chemical industry

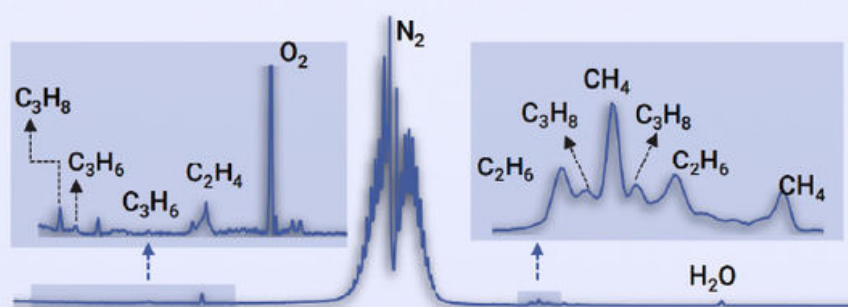


Pharmaceutical chemical industry

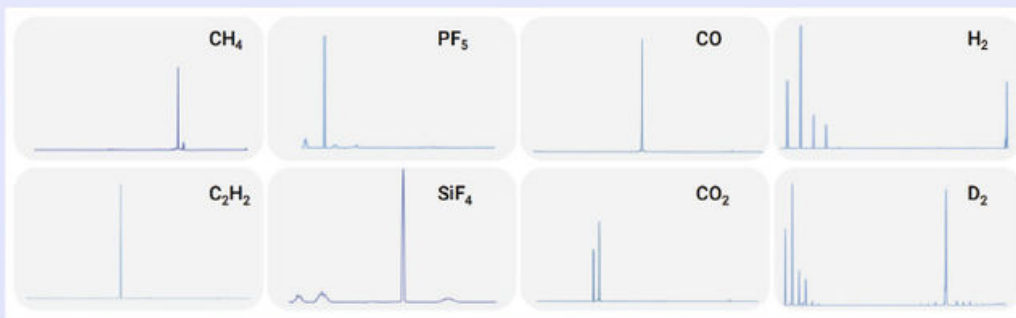
# Typical Spectra

## Gas Mixture Analysis

Component	Concentration (ppm)
CH <sub>4</sub>	50
C <sub>2</sub> H <sub>6</sub>	30
C <sub>3</sub> H <sub>8</sub>	40
C <sub>2</sub> H <sub>4</sub>	15
C <sub>3</sub> H <sub>6</sub>	20



## Standard Gas Spectra



### Company Introduction:

JINSP Company Limited has won the National Science and Technology Commission's Scientific and Technological Achievement Appraisal Certificate and the China Patent Excellence Award, and related products have been obtained has won authoritative awards such as the Geneva International Invention Award, the Beijing New Technology and New Product Certificate, and the "Innovation Achievement Award" of the Zhu Liangyi Analytical Instrument Innovation Award.

In addition, JINSP participated in the drafting of several national and international standards, including participating in the drafting of an international standard as the only participating unit in China IEC 63085 International Standard: System of spectral identification of liquids in transparent or semitransparent containers; Drafting of two national standards: GB/T 41086-2021 "General Technical Requirements for Safety Inspection Equipment for Hazardous Chemicals Based on Raman Spectroscopy", GB/T 40219-2021 "General Specification for Raman Spectrometer".



# Company Profile



# Exhibition



# Certifications



## FAQ:

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



A1: We will send you a 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 training. Jinsp engineers can go to your place for local support ( installation, training, debugging, maintenance ).

Q3: How to receive the 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 a quotation with details soon to your email.

Q4: What about quality assurance?

A5: We have a quality inspection team. All goods will go through quality inspection before shipment. We can send you pictures for inspection.



JINSP

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