

## RS2600PAT Online Multi-Gas Analyzer For Petrochemical Fluorine Chemical And Metallurgical Industries With Raman Spectroscopy Technology

Our Product Introduction

for more products please visit us on [spectralanalyser.com](http://spectralanalyser.com)

### Basic Information

- Place of Origin: CHINA
- Brand Name: JINSP
- Certification: CE ISO9001
- Model Number: RS2600PAT
- Minimum Order Quantity: 1
- Price: Negotiable
- Packaging Details: Customized Packaging
- Delivery Time: 90-120 working days
- Payment Terms: TT
- Supply Ability: 20 PCS/90-120 days



### Product Specification

- Laser Wavelength: 532nm
- Spectral Range: 200 ~ 4200 Cm<sup>-1</sup>
- Resolution: ≤ 8 Cm<sup>-1</sup> At Full Spectral Range
- Power Supply: 100 ~ 240 VAC 50 ~ 60 Hz
- Analysis Time: 2 Seconds
- Measurement Uncertainty: ≤0.2%
- Air Circuit Interface: 6 Mm Standard Tube Fitting (3 Mm, 1/8", And 1/4" Are Optional)
- Unit Dimensions: 485 Mm (Width) × 350 Mm (Height) × 600 Mm (Depth)
- Highlight: **Raman Spectroscopy Online Multi-Gas Analyzer , Metallurgical Online Multi-Gas Analyzer, Petrochemical Online Multi-Gas Analyzer**

### 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.

# Multi-Gas Analyzer RS2600PAT



### 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%

# Technical Highlights



## Non-Destructive Gas Analysis

>500 types of gases are detectable, including diatomic gases (F<sub>2</sub>, Cl<sub>2</sub>, etc.) and isotopic gases (H<sub>2</sub>, D<sub>2</sub>, T<sub>2</sub>, 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%

### 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 / ExtbibmbIICT135°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

### Field of Applications:

Petrochemical field: Quantitative analysis of different Elements in Petrochemical Natural Gas

As a mixture of hydrocarbon components, the accuracy of qualitative and quantitative analysis of natural gas components directly affects the quality index of natural gas - calorific value.

Fluorine chemical industry: Detection of components in reaction and emitted gases of fluorine materials ; Monitoring of F<sub>2</sub> , N<sub>2</sub> , HF and other components in the fluorination process.

Metallurgical field;

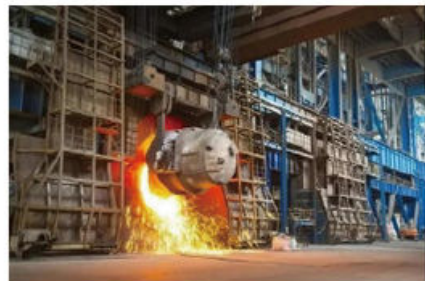
## Field of Application



**Natural gas industry**



**Fluorine chemical industry**



**Metallurgical industry**



**Electronic special gas**



**Coal chemical industry**

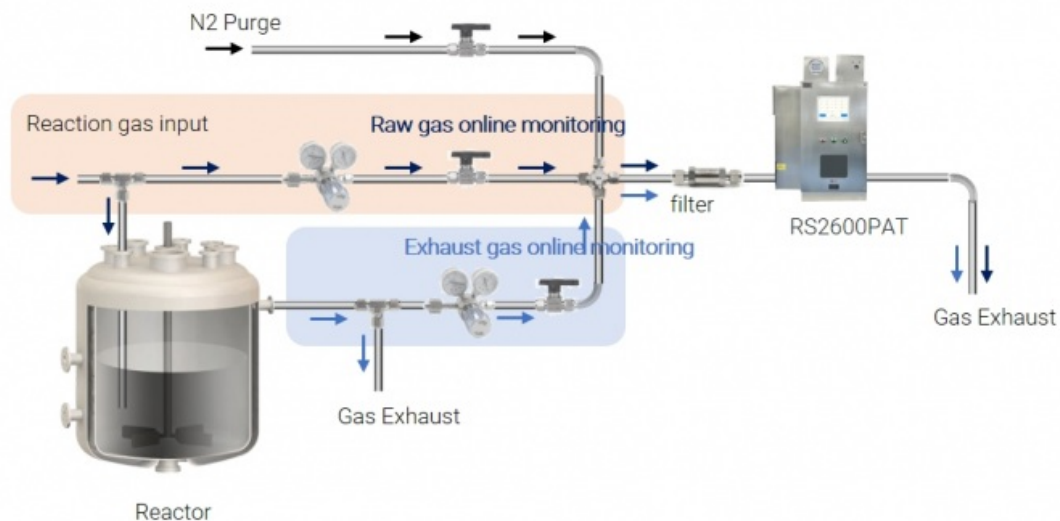


**Pharmaceutical chemical industry**

### Usage/implementation:

Through valve control, it can achieve the following functions:

- Monitoring the content of each component in the raw gas.
- Alarm notification for impurity gases in the raw gas.
- Monitoring the content of each component in the synthesis reactor tail gas.
- Alarm notification for the excessive emission of hazardous gases in the synthesis reactor tail gas.



## Features:

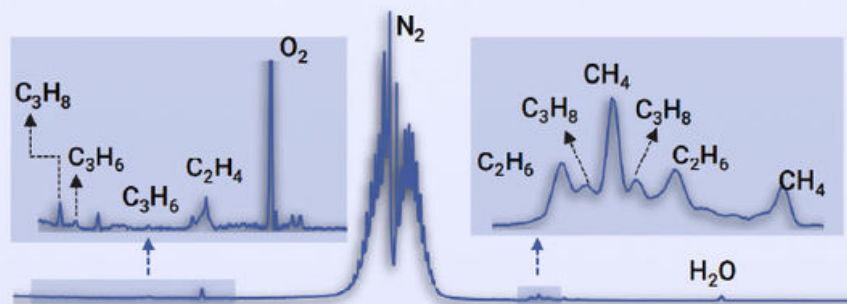
Quantitative model of multiple standard curves, combined with the chemometric method, establishes the relationship between the spectral signal (peak intensity or peak area) and the content of multi-component substances. Changes in sample gas pressure and test conditions do not affect the accuracy of quantitative results. No need to establish a separate quantitative model for each component.



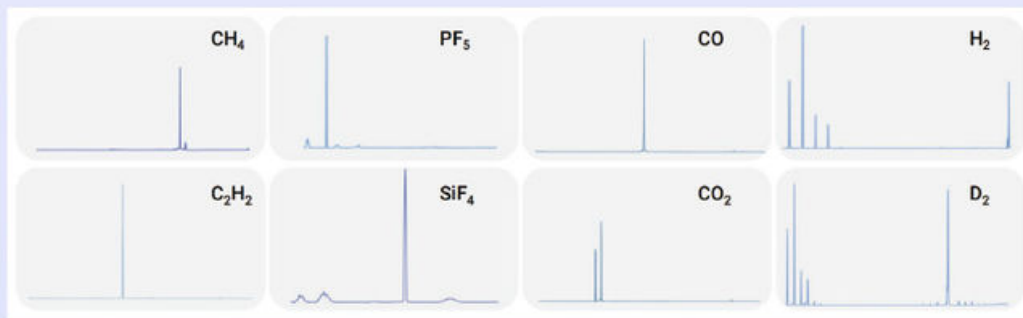
# Typical Spectra

## 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



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





**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

JINSP Company Ltd.



8618620854039



phoebeyu@jinsptech.com



spectralanalyser.com

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