

RS2600PAT 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** including:

- Petrochemical industry: alkane, alkene and alkyne gases such as CH_4 , C_2H_6 , C_3H_8 , C_2H_4 , etc.
- Fluorine chemical industry: corrosive gases such as F_2 , BF_3 , PF_5 , Cl_2 , HCl , HF , etc.
- Metallurgical industry: N_2 , H_2 , O_2 , CO_2 , CO , etc.
- H_2 , D_2 , T_2 , HD, HT, DT and other gas isotopologues.

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%

JINSP COMPANY LIMITED

JINSP Company Limited (JINSP) is a company specialized in spectral analytical technology. With the experts in such fields as optics, machinery, electricity and software, we are engaged in the development and production of scientific and industrial spectrometers. With our existing technology, JINSP has won key awards in several international invention exhibitions and more than 200 patents, and passed the European Union CE certification and the EU Civil Aviation ECAC certification. Our thousands of products have been exported to dozens of countries worldwide.

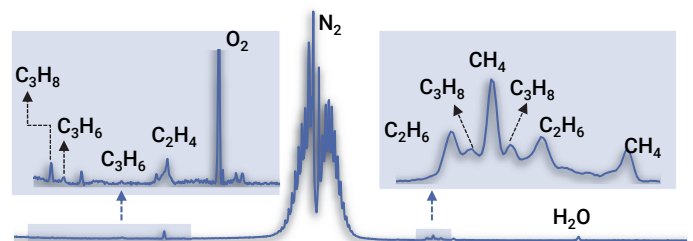


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Typical spectra

Gas mixture analysis

Component	Concentration (ppm)
CH_4	50
C_2H_6	30
C_3H_8	40
C_2H_4	15
C_3H_6	20



Standard gas spectra



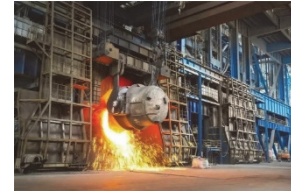
Field of application



Natural gas industry



Fluorine chemical industry



Metallurgical industry



Electronic special gas



Coal chemical industry



Pharmaceutical chemical industry

Specifications

Technical Principle	Raman scattering spectroscopy
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)
Warm-up time	< 10 min
Input voltage	100 ~ 240 VAC, 50 ~ 60 Hz
Sample gas pressure	< 1.0 MPa
Ambient temperature	-20 °C ~ 55 °C
Ambient humidity	0 ~ 90%RH
Unit dimensions	750 mm (Width) × 900 mm (Height) × 1400 mm (Depth)
Weight	250 kg
Explosion-proof	ExdbebibmbpxbIICT4Gb / ExtbimbmbIICT135°CDb
Sample gas temperature	-50 °C ~ 40 °C
Connection interface	RS485, RJ45, providing ModBus protocol, can adapt to multiple types of industrial control systems, and can provide feedback to the control system

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