

High Temperature FTIR Gas Analyzer

ATP8900-G

Features

- Compact size
- The optical path is permanently aligned and has excellent stability
- ZnSe material beam splitter and window
- Configure gas cells with different optical path lengths
- Heated gas cell and temperature controller

Application

- Environmental emergency monitoring
- Industrial process analysis and control
- Flue emission gas testing
- Labor hygiene on-site monitoring
- Catalytic conversion science research
- Garbage incineration and combustion emission gas monitoring

Especially suitable for: simultaneous analysis of multiple components of measured gases, high temperature, high humidity, complex and harsh test environments where the measured gas components are complex

Description

ATP8900-G is a FTIR gas analyzer designed by Optosky for low concentration gas applications. This analysis system is suitable for application sites such as waste incineration, environmental protection, and online gas monitoring; it can also be used in universities and research institutes to characterize catalyst gases.

For accurate and repeatable measurements in everyday work, the ATP8900-G features a nearly maintenance-free optical system, while the proven interferometer design ensures unparalleled reliability. With fully integrated and reliable universal sampling capabilities, easy measurement and a wide range of accessories, the ATP8900-G is the ideal instrument of choice for both laboratory and field testing environments. ATP8900-G leads the infrared spectroscopy market with an attractive price/performance ratio and high performance.

The compact gas analyzer integrates a long optical path gas cell. Yingsa Company developed and designed a dedicated coupling chamber that perfectly organically combines the spectrometer with the gas cell, temperature controller, thermocouple, radiator, etc. The optical path is simpler and almost Disturbed by the external atmosphere.



1. Parameter

Item	Specifications
Spectral Range	5000-500cm ⁻¹
Spectral Resolution	≤1cm ⁻¹
Wavenumber Accuracy	≤0.01cm ⁻¹
Interferometer	High-stability Cube Mirror Michelson Interferometer, service life is more than 10 years
Beam Splitter	Mid-infrared zinc selenide (ZnSe) moisture-proof beam splitter
Detector	Moisture-proof high-sensitivity MIR detector with built-in ADC
Source	Long life mid-infrared ceramic light source, 1550K
Laser	Solid-state laser, service life is more than 10 years
Gas Cell	Multiple reflection gas cell with pathlength 5 meters and volume is 200mL. Mirrors are gold coated and anti-corrosive. The diameter of input and output is 6mm. The gas cell can be heated to 200°C.
Software	The English version of the processing software under the Windows 10 operating system includes: infrared spectrum measurement function, spectral data preprocessing function, spectrum rapid comparison function, user-built standard spectrum library function, quantitative analysis function, automatic deduction of diamond/CO ₂ absorption peak function, etc.
Database	Equipped with many gases quantitative models, such as CO ₂ , CO, NO ₂ , NO, NH ₃ , SO ₂ , HF, H ₂ O etc. the software can set up new models according to the different concentration of gases
Size	590 mm * 430 mm * 176 mm (Host)
Weight	33 Kg