

Optical Emission Spectrometer

General information about ADSP-8002O Optical Emission Spectrometer

ADSP-8002O Benchtop Spectrometer provides the ideal performance and fit for product assurance testing and material identification. This spectrometer delivers maximum confidence and reliability based on CCD technology.

ADSP-8002O Benchtop Spectrometer is most suitable instruments for the determination of various elements in different matrices. In steel, raw iron, cast iron, non-ferrous metal production a fully or even partially automated analysis results in a cost reduction. In order to meet individual requirements, modular systems have been developed for laboratory automation. This also gives the user a truly spectrometer with multi-base capability (Fe, Al, Cu, Zn, Ti, Ni, Pb, etc) that's both easy to use and space saved.

Features:

- ✓ High accuracy and affordable.
- ✓ Complete analysis within a few seconds.
- ✓ Optimized to customer requirements and optimal advisory services.
- ✓ Extreme sensitivity due to latest CCD technology and software.
- ✓ Adding additional analysis modules without any change of hardware.
- ✓ Technology support and software update for free.
- ✓ Wavelength coverage 130nm-800nm, permitting simultaneous analysis for up to 31 elements.
- ✓ Available for routine analysis of small sample, diameter from 1mm to 8mm.
- ✓ Humanized design, configuring as a bench top or floor model with storage possibilities for consumables and spares.



Applications:

ADSP-80020 Benchtop Spectrometer is designed by Wuxi Create Analytical Instrument Co., LTD. By using the CCD technology, the ADSP-80020 is a preferred choice for the analysis of the elements concentration in metal. This instrument is widely used in the areas of metallurgy, foundry, machinery, automobile manufacturing, aerospace industry, weapon manufacture, metal processing and other fields.

Technical specification of the device:

Optical System:

- Optical Structure: Paschen-Runge mount
- Rowland circle of diameter: 350mm
- Wavelength range: 130nm-800nm/200nm-800nm
- Detector: High resolution CCD Multi detectors
- Degree of vacuum: Auto control within 6-15 pa
- Pixel resolution: 30µm
- full spectrum
- Light room temperature is controlled automatically

Spark Source:

- Type: Digital arc and spark source/New plasma generator
- Spark Frequency: 100-1000HZ
- Plasma current: 1-80A
- Ignition voltage: >7000V

Spark Stand:

- Argon flushed with minimal consumption of Argon
- Spray discharge electrode technology
- Adjustable sample clamp

Others:

- Measurable elements: Fe base, Al base, Cu base, Zn base, ect
- Dimension: 800mm(L)*700mm(W)*470mm(H)
- Weight: About 100kg
- Storage Temperature: 0°C-45°C
- Operating temperature: 10°C-30°C, 23±2°C is recommended
- Power: AC220V/50Hz (Customized)
- Power consumption: Excitation: 700W / Stand by: 100W
- Argon quality: 99.999%, Argon pressure >4Mpa
- Argon consumption: 5L/min during spark mode

