ADVANCE SCIENCE

INNOVATION | PRECISION | PERFORMANCE

# ATOMIC ABSORPTION SPECTROPHOTOMETER

## MODEL NO. : AS-AAS-01




Advance Science Atomic Absorption Spectrophotometer is a high-performance double-beam AAS designed for accurate and reliable elemental analysis. It provides excellent sensitivity, stability and reproducibility for trace and major element determination. The system is suitable for a wide range of applications in environmental monitoring, food and agriculture, pharmaceutical, chemical, materials, research and industrial laboratories.

- ACCURATE ELEMENTAL ANALYSIS
- HIGH SENSITIVITY
- STABLE & RELIABLE PERFORMANCE
- AUTOMATIC OPERATION
- WIDE RANGE OF APPLICATIONS
- SUITABLE FOR RESEARCH & INDUSTRIAL USE

## TECHNICAL SPECIFICATIONS

| Parameter | Specification |
|---|---|
| Type of Atomic Absorption Spectrophotometer (AAS) | Double beam |
| Monochromator type | Holographic grating |
| Detector Type | Photo Multiplier Tube (PMT) |
| Source Wavelength - Minimum | 185 nanometer |
| Source Wavelength - Maximum | 900 nanometer |
| Accuracy (+/-) | 0.01 nanometer |
| Repeatability | 0.05 nanometer |
| Diffraction grating (lines/mm) | 1800 |
| Wavelength setting and scanning | Automatic |
| Slit width Adjustment | Automatic |
| Resolution (nm/mm) | 0.1 parts per million |
| Bandwidth (nm) | 0.1 - 2.0 |
| Focal length (mm) | 250 to 299 |
| Type of HCL | Both Single and Multiple Element |
| Number of Single element HCLs supplied (inclusive in the scope of supply) | 4 |
| Number of multiple element (alloy) HCLs supplied (inclusive in the scope of supply) | N/A |
| Measuring modes (K factor and standards) | Transmittance, Absorbance, Concentration (Wavelength, time), Emission. |

## KEY FEATURES

- Double beam optical system for high accuracy and stable analysis.
- Holographic grating monochromator for excellent spectral performance.
- Photo Multiplier Tube (PMT) detector for high sensitivity detection.
- Wide wavelength range for multi-element analysis.
- Automatic wavelength setting and scanning.
- Automatic slit width adjustment.
- High precision, accuracy and repeatability.
- Supports both single and multiple element hollow cathode lamps.
- Multiple measuring modes: Transmittance, Absorbance, Concentration (Wavelength, time), Emission.
- Suitable for a wide range of analytical applications.

## APPLICATIONS

- Environmental Monitoring
- Food & Agriculture
- Pharmaceutical Analysis
- Chemical & Petrochemical
- Materials Research
- Research & Academic Laboratories
- Industrial Laboratory Applications

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