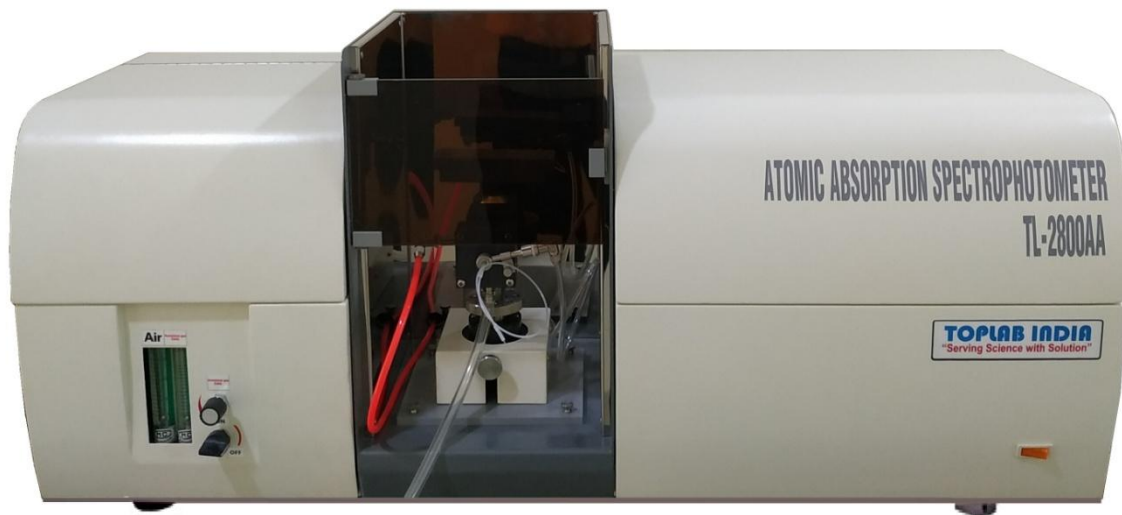


# ATOMIC ABSORPTION SPECTROPHOTOMETER



**MODEL: TL-2800AA**

## DESCRIPTION

TOPLAB INDIA'S Microprocessor Atomic Absorption Spectrophotometer is best choice for any laboratory operator/user for advanced trace element analysis measurement. TL-2800AA has high precision, humanized designation to fully meet the different requirements of users. Users can choose graphite furnace control, automatic injector, hydride generator and so on.

TOPLAB INDIA'S AAS is a great tool for any Soil testing laboratory, Fertilizer Testing Laboratory, Agriculture and Environmental Testing Laboratory operator, which is one of the most accurate and economy AAS available in the market.

TL-2800AA can be widely used in the fields of Soil and Water testing Labs, Geology, Metallurgy, Pharmaceutical, Chemical industry, Petroleum, Agriculture, Environment protection, Commodity inspection and many other industries. The analysis and application of trace elements has gradually permeated from inorganic chemistry to organic chemistry in recent years.

**Features:**

- TL-2800AA has Four-lamp position Turret Holder, and the pre-heat lamp number can be customized, which can short the waiting time of operating process.
- The lamps have the functions of self-optimized and three-dimensional self-adjustment to maximize the energy.
- The elements have the functions of negative high-voltage self-memory, wavelength scanning, lamps self-optimization and energy optimization with one key step.
- It is convenient for the testing results to be exported by various formats and operated by office software.
- This system can be remote controlled so that its problems can be solved in time with remote control technique.
- Hydride generator can be used.
- Automatic ignition system can be used.

**SPECIFICATION****A. Optical System:**

- **Wavelength Range:** 190nm-900nm
- **Optical Grating:** 1800 lines/mm
- **Monochromator:** Czerny-Turner
- **Spectral Bandwidth:** 0.2nm, 0.4nm, 1.0nm, 2.0nm, For multiple auto-switching
- **Wavelength Precision:**  $\pm 0.2$ nm
- **Wavelength Repeatability:** 0.05nm
- **Baseline Drift:** 0.002A/30min
- **Detectors:** PMT - Wide spectral range Photomultiplier Tube
- **Spectral Bandwidth Deviation:** Copper (Cu) 324.7nm  $\pm$  0.2nm
- **Bandwidth Deviation:** within  $\pm 0.01$ nm

**B. Light Source System:**

- **Lamp Holders:** Four lamp holders for auto-switching
- **Lamp power supply mode:** 400Hz square wave pulse
- **Lamp current adjusting range:** Lamp current adjusting range

**C. Atomization System:**

- **Concentration (Cu):** 0.025 $\mu$ g/ml/1%
- **LOQ (Cu):** 0.006 $\mu$ g/ml
- **Burner:** 100mm, single-slit Titanium Alloy burner, which is air-cooled pre-mixed type
- **Precision:** RSD $\leq$ 0.8%
- **Sprayer:** High efficiency glass sprayer of metal set
- **Atomization Chamber:** Corrosion-resistant Plastic atomization chamber
- **Safety Measures:** It has functions of various auto safety Protection acetylene leak alarm and system turn off

**D. Analysis method:**

- **Measuring Methods:** Air-acetylene Flame method and Atomic Absorption method for hydride generator
- **Concentration Calculate Method:** Automatically fit the working Curve, calibrate sensitivity and calculate the concentration & content.
- **Repeat Measuring Times:** 1~99 times, automatically calculates the average value, content, standard deviation and relative standard deviation.
- **Result Print:** Print the stage test data or final analysis report, and the results can be exported to Excel.
- **Software Compatibility:** Windows XP/Vista/Windows7 etc.

**E. Power supply: AC 220V/50HZ**

**F. Power: 150VA**

**G. Weight: 70kg**

**H. Working environment temperature: 10°C ~35°C**

**I. Working environment humidity: ≤80%**

## SPARE PARTS AND ACCESSORIES



**BURNER ASSEMBLY**



**AUTOMIZER**



**INJECTION TUBE**



**DATA CABLE**



**ACETYLENE HOSE**



**HOLLOW CATHODE LAMPS**