



ATS 200S™ SCIENCE / INDUSTRY FLAME PHOTOMETER (HPFP)™

The ATS 200S series High Performance Flame Photometers (HPFP)™ incorporate the latest state-of-the-art design and technology.



- Simultaneous analysis of all elements
- Automatic flame ignition
- Automatic optical flame failure control
- Auto calibration control & monitoring
- Fixed multi-channel optics

◀ **ATS 200S™ MULTI-CHANNEL
HIGH PERFORMANCE FLAME PHOTOMETER™**

Model **ATS/40994 - ATS 200S™ Science and Industry High Performance Flame Photometer (HPFP)™**, latest state-of-the-art design; uses a powerful microprocessor – microcontroller and cellular telephone technology for simultaneous measurement of up to 4 elements in a single sample aspiration. Standard unit includes Na, K, Li, & Ca channels. Additional channels for Barium or other elements (max. 5) are optional. Up to 5 elements can be selected for analysis in *simultaneous and instantaneous* mode. Auto-Zero and memorization of the Hi-Cal calibration point allows for very easy automatic calibration. *Easy operation through 'Yes/No' menu driven commands*. Readout of data, functions and audio & visual warnings monitored on large LCD display of 4 lines, 20 characters with green backlight LED.

The advantages of this system include:

- multi-point calibration curves
- validation routines
- widens analytical measuring ranges
- memorizes & archives methods and analysis data for future re-use
- reduces laboratory red tape by over 60%
- provides the user automatically with documentation needed for GLP or the ISO/IEC 17025 Laboratory Quality Standard, etc

Typically applications include: environmental investigations (water, waste waters, solid wastes, etc), agriculture (plants, soils, fertilizers, animal tissues, water), veterinary; beverages (milk, soft drinks, wine, beer, food & feeds, etc.), pharmaceutical quality control, blood & urine, health and educational sciences, advanced research, industrial quality control, mining, cement, petrochemicals, paper industries, and many others.

Measuring Ranges :

Na 0 – 200 ppm; Li 0 - 200 ppm; Ba 50 – 1000 ppm

K 0 – 200 ppm; Ca 0 – 200 ppm

Measuring Units : ppm, mmol/L, mEq/L

Sensitivity : typically 0.4 ppm Na and K

Detection Limit : 0.2 ppm for Na and K

Ambient temperature : 15 – 36 °C

Ambient Humidity : up to 85% R. H. non condensing

Linearity : Natural linearity extended multi-fold

Reproducibility : 1% CV for 10 consecutive measurements

Drift : 1 % over 30 min

Programs : Software menu with 3 programs:

Prog 1: four elements simultaneous analysis - Na / K / Li / Ca

Prog 2: dual elements simultaneous analysis - Na / K

Prog 3: single element analysis - Na or K or Li or Ca or Ba

Dimensions and Weights

ATS 200S Analyser : 320L X 400W X 400H mm; Net 9 kg

ATS Air Compressor : 340L x 250W x 350H mm; Net 6 kg

Due to our policy of continuous product development, we reserve the right to deviate from standard specifications and appearance without notice.

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