

Buck Scientific Atomic absorption spectrophotometers



The new ATS (Automated Touch Screen) line of AA spectrophotometers Feature 10" color touchscreen with an easy to navigate tabbed GUI. Four USB ports for connecting included Mouse, keyboard, and printer. The ATS line also features automated wavelength, and slit selection.

Model features:

The 225ATS is our educational model, which comes with two powered lamp brackets on the back of the instrument, and one internal bracket.

The 230ATS upgrades the instrument with the addition of D2 background correction, and a rotating three lamp turret.

The 235ATS is for analysts requiring nitrous oxide to run Al, Si, Ga, Ge Ba, Be, Ti, Va, Zr, Nb, Mo, Hf, Ta, and W. The automated gas box allows for push button oxidant change-over, from Air to Nitrous oxide for safety. The 235ATS also features a flame detector, which will turn the gases off shall the flame extinguish.



Call or email us today for a quote!
800-562-5566 ~ sales@bucksci.com

General Specifications

Electrical: Auto selectable 100V to 230V 50/60Hz input

Power Consumption: .5 A

Optics:

Detector: model 928; wide range general purpose, 190-930nm

Optional Detectors: model 955; UV enhanced, wide-range, 190-930nm

Lenses: Supracil - amorphous silica

Monochromator: 0.25m Ebert mount

Grating: 32nm x 27nm; 600 grooves/mm

Wavelength adjustment: 3 digit motor driven, 0 to 1000nm +0.1 nm

Reproducibility: +0.1 nm

Resolution: variable slit - 2Å, 7Å, and 20Å

Operating Modes:

Absorbance/Emission: -0.0820 to 3.2000

Concentration: to 5 significant digits

Integration Period: 0.1 to 99.9 seconds

Screen Refresh : 0.224, 0.448 or 0.896 seconds

Recorder Output: 1V/ABS (-0.08 to 3.2V)

Background Correction: In-line Deuterium Arc

Hollow Cathode Lamps:

Dimension: 1.5" OD

Striking Voltage: 500V

Lamp Current: 0 to 18 mA average current (typical current is 1.5-8.0 mA)

Duty Cycle: 25%

Modulation Frequency: (142 Hz Nominal)

Burner Assembly:

Design: Polyethylene Pre-mix chamber, glass impact bead dispersion

Burner Head: Titanium; air-acetylene head - 4" x 0.026" single slot
(nitrous oxide head - 2" x 0.019" single slot)

Adjustments: Horizontal and Vertical positioning

Performance:

Average Noise (at 3 μ g): 0.0018 ABS (Cu at 324.7nm, 7Å slit, 5 sec. int.)

Sensitivity: see specific element chart (Sect. 4)

Reproducibility: <+5% relative standard deviation



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