

Buck Scientific

205 Atomic Absorption Spectrophotometer

The 205 AAS is the next evolution of the highly successful Buck 210VGP. The 205 is a rugged, economical, & highly sensitive instrument which is perfect for industrial, educational and QC operation.

Overview

Features:

- Internal microprocessor generates calibration curve with graphical and tabular formats.
- Dual lamp power, one for warm up
- High throughput "Stable Beam" optical system
- Modulated HCL power supply to cancel DC emission from flame
- Digital readout for absorbance, emission, direct concentration, lamp currents and PMT voltage
- Autozero, curve correction, integration and high gain damping features
- Bandpass resolution from 0.2 - 0.7 - 2.0nm
- Burner safety interlock system for nitrous oxide/acetylene flame operation
- High sensitivity detection using quartz PMT detector
- Analog and digital output for chart recorders/PC data systems
- Compact and portable

To take advantage of this enhanced signal, we design an optical layout that provides the highest throughput of any commercially available spectrophotometer. Our very simple straight line optical path uses a monochromator with a single reflector mirror. This cuts down on the amount of light loss often associated with models having 10 or more mirrors. Because of this, the Buck 205 AAS can detect far-UV elements, such as arsenic and selenium, with ten times greater sensitivity.

The Buck Scientific 205 AAS uses a unique burner system to get more sample to the flame, which results in more signal and better sensitivity. We use an impact

bead nebulizer to get an efficient generation of a fine aerosol of sample solution. The short path spray chamber permits difficult solutions containing organics or high dissolved solids to be aspirated with superb precision and minimal instabilities.

Wavelength

Range: 190 to 900nm

Accuracy: ± 0.2 nm

Precision: ± 0.1 nm

Monochromator/

Optics: • 250mm Ebert Mount

• 600 lines/mm high

efficiency grating

• 0.2, 0.7, 2.0nm bandpass

to cover analytical wavelengths

for use on atomic

absorption and emission

measurements

Power Supply: 100-240V.A.C. operating

range, 50/60Hz AC,

<100 watts

Hollow Cathode

Lamp: Dual HCL modulated power

supply, 0 to 25mA peak

Burner/

Nebulizer: Polypropylene spray

chamber with premix burner

and high efficiency adjustable

nebulizers (SS or Pt/

Ru), Titanium burner heads

for Air/Acetylene, Argon/

Hydrogen and Nitrous Oxide/

Acetylene operation

Integration: User selectable times from

0.5 to 10 seconds for Stabi

lized readings.

Calibration: Automatic, weighted least

squares fit to 1st, 2nd, 3rd, or

4th order functions, up to 8

points.

Display: 16 Line backlit liquid crystal

display for all text & graphics

Output Modes: LCD Display, IEEE Parallel

port for dot matrix printer,

RS-232 Serial Port

Dimensions: 39" X 11" X 12"



170 Shields Court Unit 2

Markham, ON L3R 9T5

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Weight: 50 lbs. (80 lbs. shipping)