

Buck Model 100/105 Spectrophotometers

Ideal for educational use and routine laboratory analysis.

Overview

The Buck Model 100/105 Spectrophotometers are compact and economical units, ideal for routine analysis. Pertinent readouts such as wavelength, absorbance, concentration and error messages are displayed on a large LCD. A cavernous sample compartment supports various cell holders to accommodate 10mm to 100mm pathlength cuvettes and test tubes ranging from 10mm to 25mm in diameter. A RS232 interface allows for connection to a printer or PC, remote instrument control and downloading to an ASCII file for spreadsheet work.



Features:

- Narrow Bandwidth - 8nm
- Versatile Sampling System
- Small Footprint
- Full Interface Capability
- Competitively Priced
- Model 105: 190 - 1000 nm Wavelength
- Model 100: 320 -1000 nm Wavelength
- Dual display: Wavelength & Photometric
- Easy to use keypad
- Fully G.L.P. Compliant
- Ideal for Routine Analysis

Buck Model 100/105 Spectrophotometers

Accessories:

Cell Holders

| Part Number | Description |
|-------------|-----------------------------|
| BS630-020 | Test Tube Block (13mm Dia.) |
| BS630-021 | Test Tube Block (25mm Dia.) |
| BS630-022 | Test Tube Block (16mm Dia.) |
| BS630-005 | 20-100mm Cell Holder |

Cells & Cuvettes

| | |
|-----------|---------------------------------------|
| BS1-G-100 | 100 x 10mm Glass Cell |
| BS1-G-50 | 50 x 10mm Glass Cell |
| BS1-G-40 | 40 x 10mm Glass Cell |
| BS1-G-20 | 20 x 10mm Glass Cell |
| BS1-G-10 | 10 x 10mm Glass Cell |
| BS035-078 | 100 x 10mm plastic cuvettes (100) |
| BS060-087 | 1ml semi-micro plastic cuvettes (100) |
| BS060-229 | 3.5ml plastic cuvettes (500) |

Miscellaneous

| | |
|-----------|-----------------------|
| BS012-075 | Tungsten Halogen Lamp |
| BS630-028 | Dust Cover |
| BS035-088 | Calibration Set |

Specifications

Wavelength:

| | |
|-----------------|------------|
| Range Model 100 | 320-1000nm |
| Model 105 | 190-1000nm |

| | |
|------------|------|
| Resolution | 1nm |
| Accuracy | ±2nm |
| Bandwidth | 8nm |

Absorbance:

| | |
|------------|------------------|
| Range | -0.300 to 1.999A |
| Resolution | 0.001A |

Factor:

Photometric Noise Levels:

Photometric Stability:

Readout:

Outputs:

Light Source: **Model 100**
Model 105

Input Voltage:

Input Power:

Size:

Weight:

Transmittance:

| | |
|-------|-------------|
| Range | 0 to 199.9% |
|-------|-------------|

| | |
|----------------------|-------|
| Resolution | 0.1% |
| Straylight | <0.5% |
| Photometric Accuracy | ±1% |

Concentration:

| | |
|------------|-----------------------------|
| Range | -300 to 1999 Concentration |
| Resolution | 0.1/1 |
| Units | ppm, mg/l, g/l, M, %, blank |

0 to 999.9, 1000 to 9999

<1%

1%/Hr after warm-up

Custom Liquid Crystal Display

Analog (0-1999mV), RS232 serial port

Tungsten Halogen 20W 12V

Xenon lamp module

115/230Vac -20% +10%

<50W

14.4" (w) x 10.7" (d) x 6.3" (h)

13.2 lbs.