



PCS[®]2 SPECIFICATIONS

DESCRIPTION

Employing a NIST traceable colorimetric method and a high performance photometer, the PCS2 Pipette Calibration System allows an accurate, precise, quick, and easy measurement of the dispensed volume from any pipette (from 0.1 μ L to 5000 μ L). Additionally, to facilitate record keeping, a hard copy printout is generated for every test and calibration.

The PCS2 is insensitive to its environment and can be used under standard laboratory conditions. A special workstation is not required.

SYSTEM PERFORMANCE

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| Assay Time Requirement | Three minutes for a ten data point calibration. |
| Data Points Per Assay | 1 to 50 data points can be taken per calibration. |
| Inaccuracy | Less than 1% |
| Imprecision | Less than 0.5% CV |
| Operating Temperature | 18°C to 28°C. |
| Printed Output | Complete calibration data record; 11.2 cm width; with standard printer supplied. |

PCS INSTRUMENT

The PCS instrument is a high performance bench-top filter photometer that provides a very high signal to noise ratio and easy-to-use interface while requiring no lamp warm-up.

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|---------------------------|---|
| Size | 23 cm (9.1 in) W x 11.5 cm (4.5 in) H x 30.5 cm (12 in) D |
| Weight | 4.8 kg (10.5 lbs.) |
| Keypad | 18 keys |
| Display | 2 x 20 alphanumeric |
| Wavelengths | 520 nm and 730 nm |
| Printer Output | Centronics Parallel |
| Serial Input/Output | RS 232 (configuration: 9600 bits per second, 8 data bits, 1 stop bit, no parity). |
| Noise | Less than 0.00015 AU at AU = 1 |
| Inaccuracy | Less than 0.75% over the range 0 to 1.5 AU |
| Warranty | 1 Year |

PCS REAGENT KIT

Reagents come packaged in several different kit options. Please see the PCS price list for options.

Blank Reagent Vials Prefilled with blank reagent. Up to 40 data points may be taken per vial.

Sample Solutions 6 ranges - for pipette sizes 0.1 μ L to 5000 μ L

Sample Aliquot Containers & Transfer Pipettes Used to transfer and hold aliquots of sample solution.

Calibration Standard 1 solution - Not consumed during use.

Shelf Life..... 9 months at 18°C to 28°C.

PCS INSTRUMENT CALIBRATOR KIT

Calibration solutions are not consumed and results are printed after completion.

Calibration Standards 4 solutions - Allows accuracy and noise testing over the full range of volume measurements.

Shelf Life..... 9 months at 18°C to 28°C.

U.S. Patents 5,492,673; 5,298,978; 5,092,677; 5,247,345
European Patents 0628157; 0711404; 0534957
Japanese Patent 2520852
Patent Pending