

Colorimeters



The CHROMA Model 260 Programmable Colorimeter

Full programmability allowing up to 100 methods to be installed by the user. This permits semi-automatic operation with the user only required to insert the prompted filter. An RS232 output allows the use of a serial printer and every result, blank and calibration is time stamped. The unit allows quick Absorbance and Transmission measurements with Auto-Zero, Concentration with Standard Solutions or Factor as well as the Kinetic Reaction Rate and End Point methods.



CO/45104

| Technical specifications | |
|-----------------------------|----------------------------------------------------------------------------------------------------------|
| Display | LCD Programmable |
| Wavelength Range | 400-750 nm |
| Wavelength Selection | of Drop-in Filters available |
| Bandpass | Gelatin 40 nm, Interference 6-10 nm |
| Modes | Absorbance, Transmission, Concentration, Factor, Kinetic (Rate and End Point) (Sample and Reagent blank) |
| Methods | 100 programmable |
| Sample Numbering | Sequential and alpha- numeric 16 characters |
| Absorbance Range | 0.000 to 1.999 |
| Absorbance Resolution | 0.001 |
| Transmission Resolution | 0.001 |
| Light Source | Pre-focused tungsten lamp |
| Detector | Silicon Photo diode |
| RS232 Output | Yes |
| Stability | < $\pm 0.005A$ in any 15 min period |
| Photometric Reproducibility | $\pm 1\%T$ using same cuvette or test tube |
| Size and weight | 218L x 230W x 188H (mm), 2.2Kg net |
| Power Requirements | 90-264 VAC Auto-ranging or 12 V DC Battery |

Gelatin filters

These are low cost selection devices which produce or transmit a wide band of radiation usually ± 20 nm. Most colorimetric analyses have a wide absorption band which allows excellent results to be obtained in conjunction with the CHROMA colorimeters. Coverage of all wavelengths in the visible spectrum is catered for using a set of 8 Gelatin filters. Most colorimeters are used for only one type of analysis and will require the use of only one filter.

Interference Filters

These are used to select wavelengths more accurately by providing a narrow bandpass typically of around 10nm. The interference filter also only absorbs approximately 10% of the incident radiation over the whole spectrum thereby allowing light of higher intensity to reach the detector.

Sample containers

Sample containers are offered in a variety of forms depending on whether the important factor is sample size, speed of measurement or accuracy. For large dilute samples sets of 12 matched test tubes are available. For smaller more concentrated solutions cuvettes are offered. For rapid sampling a built-in sample tube is available.

Sample holders

Each instrument is supplied with a standard 10 mm cuvette holder for use with 45 mm high 10 x 10 mm glass or plastic cuvettes.

| Cat. No. | Description | Pack |
|----------|----------------------------------------|------|
| CO/45104 | Colorimeter model 260 | - |
| CO/45010 | Gelatin filters, set of 8 | 1 |
| CO/45012 | Interference filters 405nm | 1 |
| CO/45014 | Interference filters 510nm | 1 |
| CO/45016 | Interference filters 546nm | 1 |
| CO/45018 | Interference filters 600nm | 1 |
| CO/45020 | Interference filters 660nm | 1 |
| CO/45022 | Interference filters 680nm | 1 |
| CO/45024 | Interference filters 720nm | 1 |
| CO/45026 | Test tubes matched, small | 12 |
| CO/45028 | Test tubes matched, medium | 12 |
| CO/45030 | Test tubes matched, large | 12 |
| CO/45032 | Cuvettes plastic disposable, 10mm | 100 |
| CO/45034 | Cuvettes, plastic disposable, 10mm | 1000 |
| CO/45052 | Cuvette holder, 10mm & large test tube | 1 |