



Brinkmann® PC 950 Probe Colorimeter

# Colorimetric determination made easy

## Brinkmann PC 950 Probe Colorimeter

### Applications

- For use in pharmaceutical, water, and wastewater analysis
- For food and beverage quantitative and qualitative analysis
- pH and redox measurements and titrations for Ce, Cr, Cu, and Fe
- Complexometric titrations for Ba, Pb, Mg, and total hardness
- Turbidimetric titrations

### Filter wavelengths for applications include:

Ammonia	450 nm–500 nm
Chloride	470 nm
Chlorine	520 nm
Chromium	545 nm
Copper	470 nm
Cloud point	40% Neutral density
Cyanide	570 nm
Nitrate	420 nm
Phenol	500 nm
Silica	660 nm–700 nm
Sulfate	520 nm
Phosphorus	420 nm–470 nm or 880 nm

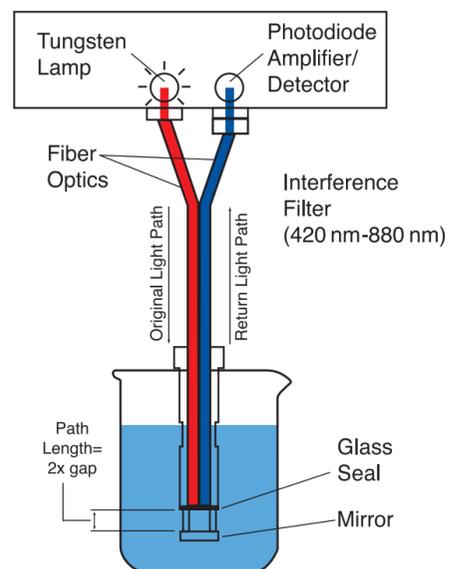
### Product Features

- Small footprint and wall-mountable, saves valuable bench space
- Selectable measurement intervals for special applications
- “Drop-in” filter for easy changes between samples
- Probe tips allow direct measurement, with no sample transfer or cuvettes
- Selectable filter wave length allows for multiple uses
- Integrated electronic elimination of ambient light ensures accurate measurements
- RS-232C serial and analog outputs for remote monitoring and control
- Several probe tip materials available for various sample types

Brinkmann PC 950 Probe Colorimeter, a lab favorite for measuring the optical transmittance, absorbance, and/or concentration of liquids, is the simplest and most convenient colorimeter you will ever use. Designed for use in the visible/near infrared photometric range, it features a precisely controlled light source (lamp), fiber optic probe, interference filter(s), and photodiode measurement cell to determine the amount of light that passes through a liquid.

Extraneous ambient light does not affect measurements, and readings can be taken at any level of illumination—artificial or natural. Simply insert the fiber optic probe tip directly into your sample container—from 0.5 ml test tubes to large vats and pipelines—and read/print the results. By measuring samples in their own container, errors from temperature or turbidity changes are substantially reduced—and no cuvettes means no breakage or cleaning problems.

### Operational Schematic:



## Brinkmann PC 950 Probe Colorimeter

The PC 950 Probe Colorimeter is ideal for laboratories performing one or two colorimetric measurements. Controlled by a microprocessor, the compact unit has advanced data control and measurement capabilities. Standard features include selectable measurement times as well as analog and digital outputs for connection to an external printer. A 30 inch (76.2 cm) fiber optic and a 2 cm stainless steel probe tip are also standard.

### Interchangeable probe tips

Pyrex®-backed surface mirrors are used in each probe tip, and they are available in a variety of materials and light path lengths. Materials include:

- Stainless steel
- Lexan®
- Pyrex
- PTFE-coated stainless steel
- Tips with Swagelok® fittings



Interchangeable probe tips and drop-in filters

### Fiber optics

The flexible fiber optic bundles are available in lengths from 30 inch (76.2 cm) to 48 inch (1.22 m) for quantitative measurements and up to 30 feet (9.1 m) for qualitative measurements.

### Drop-in filters

Filters for the PC 950 can be selected from wavelengths ranging from 420 nm to 950 nm. Available in 10 nm increments, the drop-in filters have a 20 nm half-peak bandwidth (HPBW). Neutral density filters are also available.



Simple, easy-to-use with excellent results

### Technical Specifications

Display Resolution	Model PC 950
Transmittance:	0.1%
Absorbance:	0.001
Outputs	0 V DC–1 V DC
Analog:	4 mA–20 mA
RS-232:	25 pin
Dimensions (WxDxH)	8 x 5.5 x 2.5 inch 20.3 x 14 x 6.3 cm
Weight:	3 lb/1.4 kg

## Brinkmann PC 950 Probe Colorimeter

### Ordering Information (Customer should specify which filter wavelength, probe, and power supply voltage is needed)

Description	Catalog No.
<b>Brinkmann PC 950 Probe Colorimeter</b> , with 30 inch (76.2 cm) fiber optic and 2 cm probe tip	020238259K
<b>Fiber optics*</b>	
30 inch (76.2 cm) standard	020236001
4 foot (1.22 m)	020236043
Probe tips*	
1 cm, stainless steel	020236213
1 cm, Lexan	020236507
2 cm, stainless steel	020236264
2 cm, PTFE-coated	020208961
2 cm, Lexan	020236515
4 cm, stainless steel	020236311
10 cm, stainless steel	020236337
<b>Filters*</b> , with 20 nm HPBW	
420 cm	020231017
450 cm	020231041
470 cm	020231068
490 cm	020231092
520 cm	020231122
545 cm	020231149
570 cm	020231173
600 cm	020231203
620 cm	020231220
650 cm	020231254
670 cm	020231271
720 cm	020231335
880 cm	020231483
40% neutral density	020231548
<b>Accessories</b>	
Seiko® printer package	020016051K
Paper for Seiko printer, package of 5 rolls	020015446
Replacement lamp, CM 2017	020209208
Rubber strap, for Pyrex tip	020236469
Stopper/sleeve, for probe tip	020208996
Connecting cable, PC 920/PC 950 to Metrohm F, 1 meter	020237317
Connecting cable, PC 920/PC 950 to Metrohm F, 3 meters	020237325
Connecting cable, PC 920/PC 950 to 2 x banana jacks	020237333
Connecting cable, PC 920/PC 950 to computer 25-pin RS-232C	020240164
Connecting cable, PC 920/PC 950 to computer 9-pin RS-232C	020240199
AC power adapter 110 V–220 V/50 Hz–60 Hz	020238267

\*Other fiber optics, probe tips, and filter wavelengths are available; contact Metrohm USA for ordering information.