

# Microprocessor Photo Colorimeter

ZI 14020



## Microprocessor Photo Colorimeter : ZI 14020

It is a compact and easy to operated instrument for Photo Colorimetric analysis of a solution of any concentration. The output is available on 16x2 Line LCD display in terms of % Transmission (%T), Absorbance (Abs), Concentration (Conc) and k Factor. This instrument has 100-sample storage memory and printer output facility for printing data with any dot matrix printer. The use of microcontroller has made it extremely versatile and accurate instrument. 10mm path length matched test tubes are used for sample and blank. Facility has been provided to store the last K factor and the standard concentration value. User can also entry any known 'Factor' for a test, thereby elimination the need to re-run standards again & again. The use of high class standard wide range glass filters covering 400 to 700 nm give extremely good results. The filter setting is controlled by a rotation disc having 8 filters. An automatic shutter is provided to stop the light reaching the photocell, when test tube is not inserted in the tube holder. This increase the life of photocell tremendously.

### **FEATURES :**

Highly accurate & stable

Range 400 to 700nm

16x2 Line alphanumeric LCD Display

Printer attachment facility

Storage for 100 samples

### **SPECIFICATIONS**

Wave Length	400 to 700 nm
Resolution	1% T, 0.01 Abs., 0.01 Conc. 0.01 K factor
% Transmission	0-100% T
Absorbance	0-1.99 A

Concentration	0-19999
K Factor	1-19999
Photo Detector	Silicon Photodiode/ Photo cell
Display	16x2 line alphanumeric LCD display with backlit for %T, Abs., Conc., K factor
Keyboard	8 keys, soft touch membrane type
Data Storage	upto 100 samples
Light Source	6.8V, 0.3Amp. tungsten Lamp
Sample System	10mm path length matched glass test tubes
Filters	400, 420, 480, 500, 520, 540, 620, 680nm
Printer Interface	Centronics parallel printer interface for any dot matrix printer
RS232C Interface	Available (on request)
Dimensions	242x254x90mm (LxBxH)
Weight	2.5 kb. (approx)
Power Supply	230V AC $\pm$ 10% 50 Hz. with in built stabilizer
Accessories	Matched Test tube set of 5, Operation Manual, Dust Cover, Spare Lamp

## ZEAL INTERNATIONAL

1, Netaji Subhash Marg, Darya Ganj, New Delhi-110 002 INDIA  
 Ph.:+91-11-23276114, 23244474, 23277528, 23278846, Fax :+91-11-23273214, 43580558  
 E-mail : sales@zealinternational.com ,website : zealinternational.com