



Micro Controller Based Colori Meter CL 650



CHEMILINE DIGITAL BALANCED CELL COLORIMETER CL 650 is designed based on an article by Dr W H Summerson, Jr. Biol Chem. Vol 130pp.149-166(1939) and is ideally suitable for all soil testing laboratories, Agriculture laboratories, Fertilizer plants where the need of KLET type colorimeter is essential.

The instrument incorporates LCD digital display instead of delicate balancing potentiometer and null meter. The digital display has a scale of 0 to 1000 which is proportional to the concentration of the solution. The instrument is very easy to operate, accurate and robust.

Three standard filters Blue, Green, Red are supplied with the instrument. Sample volume requirement is 5 ml with 12 mm test tube.

The instrument has a built in power supply for the lamp. This light passes through a lens and then to selected filter and test solution on to the sensitive photocell. The current generated by photo cell is then converted into voltage for proper display on LCD. The display readings are proportional to the optical density values and hence proportional to the concentration of the solution under measurement, of course, those obeying Beer's law. Once adjusted with a blank solution and with one of the color filters, all samples of different concentrations can be rapidly measured on display. The shift in the zero point is practically negligible because of the low wattage light source and I.C. circuitry resulting in accurately reproducible results.

CL 650



• Specifications

- Range : 0 to 1000 scale
- Light Source : 6v, 1A lamp
- Detector : Photo - Cell
- Display : 3 ½ LED.
- Test tubes : 15*62 mm
- Power supply : 230 ± 10 % 50 Hz
- Optical filters : There are 3 Glass filters - blue, green, red

Labline Technologies Pvt. Ltd.