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Product Name :

Colourwave Colorimeter

Product Code :

SLE/ME/51



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Description :

Colourwave Colorimeter (Product Code: SLE/ME/51) is a filter colorimeter used to measure the absorbance and transmission of coloured solutions for concentration and reaction-rate studies in school, college and teaching laboratories. Eight gelatin filters cover 440–680 nm, it reads -0.3 to 1.99 A or 0 to 199 %T, and it accepts 10 mm cuvettes or 16 mm tubes, with analogue and RS232 outputs for recording results. It is supplied by **Jain Scientific Equipments Pvt Ltd (ScienceLab)** , Ambala, a laboratory instruments supplier in India.

Specifications

Parameter	Detail
Absorbance range	-0.3 A to 1.99 A
Transmission range	0 to 199 %T
Filters	Eight gelatin filters, 440–680 nm range
Bandwidth	40 nm
Repeatability	±0.02 A at 1 A
Analogue output	0–2 V for 0–2 A; 0–1.99 V for 0–199 %T; via 2 x 4 mm sockets
Digital output	RS232
Cuvette holder	Fixed, with drain hole
Sample vessels	10 mm path length cuvettes or 16 mm diameter tubes
Power	240 V; transformer supplied
Dimensions	180 x 150 x 60 mm
Mass	0.5 kg
Product code	SLE/ME/51
Supplied by	Jain Scientific Equipments Pvt Ltd (ScienceLab), Ambala, India

What Is the Colourwave Colorimeter Used For?

A colorimeter turns the depth of a solution's colour into a number, so students can explore the Beer–Lambert relationship, build a calibration curve from standards and read off the concentration of an unknown. Typical practicals include copper(II) sulfate or food-dye concentration, iodine clock and other rate studies, starch digestion by amylase, and estimating cell density in cultures. Choosing the filter whose colour is complementary to the solution gives the largest change in absorbance.

Because the holder is fixed and has a drain hole, a spill runs out instead of pooling around the optics; keep cuvettes clean and handle them by their non-optical sides. The analogue output on 4 mm sockets can feed a chart recorder or data-logging interface, while the RS232 port sends readi
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