Klett™ Colorimeters

For Colorimetric and Turbidimetric Determinations Including: Color, Concentration, Haze and Density Measurements and Microbiology Growth Curves.

These photometric colorimeters use specific light filters to give readings on a unique Klett™ scale. The readings are directly proportional to the concentration or optical density of a solution, in accordance with Beers Law. Two matched photocells and a suspension galvanometer give the instrument a broad range of measurement making it light and ambient temperature independent. A fully compensated and carefully balanced electrical circuit provides accuracy and consistency in readings while using simple and rugged equipment. The precision galvanometer has an illuminated logarithmic scale, graduated from 1 to 1000 Klett™ and the scale is graduated in units proportional to the optical density. Repeatability is ±.33% of the full scale.

Two units are available. The Industrial Model accepts rectangular solution cells, which can be used in either of two directions. Measurements can then be taken at depths of 10mm, 20mm, or 40mm. A reduction plate is available to minimize solution depth to 2.5mm. An adapter is available which permits the use of test tubes. The Clinical Model uses standard 14.25 x 125mm test tubes. Calibrated or uncalibrated tubes are available. In addition, micro test tubes can be used for samples as small as 2.5 ml. Both models are supplied with the two most commonly used filters, blue for 400-450nm and green for 520-580nm. Additional filters are available to permit measurements over the complete visual range. Each unit has detailed instructions, standards and guides for a wide range of tests.

• Rugged construction for long service life
• Klett™ scale is longer than many other photoelectric scales allowing greater graduation spacing for easier and more accurate readings
• Repeatable results with accuracy to 0.33% on the full scale
• Accessory filters allow measurement over complete visual range
• Measurements for both color and turbidity are possible
• Fully compensated and balanced electrical circuits do not require storage batteries or current regulators, and can be used with any electrical power supply
• Available as 115 or 220V for use worldwide

For Test Tube and Micro Tube Racks, See Pages...

*Special Order - Call 1800-4BEL-ART for Prices