



Klett™ Colorimeters

Use for Colorimetric and Turbidimetric Determinations Including:

- Color
- Concentration
- Haze and Density Measurements
- Microbiology Growth Curves

Klett™ Colorimeters Offer:

- 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
- Available as 115 or 220V for use worldwide

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; it is light and ambient temperature independent. A fully compensated and carefully balanced electrical circuit provides accuracy and consistency in readings. 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 $\pm 0.33\%$ of the full scale. Two models, Clinical and Industrial are available. Each comes complete with detailed instructions, standards and guides for a wide range of tests.

The Clinical Model (800 series) uses standard 14.25 x 125mm test tubes. Calibrated or uncalibrated tubes are available and micro test tubes can be used for samples as small as 2.5ml.

The Industrial Model (900 series) 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 that permits the use of test tubes.

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. **See ordering information on opposite page.**

For Test Tube and Micro Tube Racks, See Rack Section, Starting on Page 260

Klett™ Colorimeters

CATALOG NO	DESCRIPTION
T37012-0000	Model 800-3, 115VAC Clinical Model
T37012-0001	Model 800-3, 220VAC Clinical Model
T37013-0000	Model 900-3, 110VAC Industrial Model
T37013-0001	Model 900-3, 220VAC Industrial Model
T37012-1000	120/230 Voltage Conversion Kit for all Klett™ Colorimeters

Accessories for Klett™ Colorimeters

Clinical Model T37012-0000 Accessories

CATALOG NO	DESCRIPTION	
T37012-0010	Klett™ 801 Test Tubes, Uncalibrated	Pack/12
T37012-0020	Klett™ 802 Test Tubes, 5 and 10ml calibration lines	Pack/12
T37012-1020	Klett™ Test Kit, Calibrated Includes three calibrated test tubes #0,1, and 2; test filter, and instructions	Each Kit

Industrial Model T37013-0000 Accessories

CATALOG NO	DESCRIPTION
T37013-0010	Klett™ 901 Solution Cell, 20/40mm
T37013-0020	Klett™ 902 Solution Cell, 10mm
T37013-0030	Klett™ 903 Reduction Plate
T37013-0041	Klett™ 904M Special Test Tube Adapter
T37013-1015	Klett™ Test Kit, Industrial Includes three test tubes #0,1, and 2; test filter, test tube adapter and instructions

Filters for both Clinical and Industrial Models

CATALOG NO	DESCRIPTION	SPECTRAL RANGE
T37014-0040	KS-40 Color Filter	380-430
T37014-0042	KS-42 Color Filter, Blue	400-450
T37014-0044	KS-44 Color Filter	410-480
T37014-0047	KS-47 Color Filter	445-505
T37014-0050	KS-50 Color Filter	470-530
T37014-0052	KS-52 Color Filter	485-550
T37014-0054	KS-54 Color Filter, Green	520-580
T37014-0055	KS-55 Color Filter	520-600
T37014-0056	KS-56 Color Filter	540-590
T37014-0059	KS-59 Color Filter	565-630
T37014-0060	KS-60 Color Filter	580-640
T37014-0062	KS-62 Color Filter	590-660
T37014-0064	KS-64 Color Filter	620-680
T37014-0066	KS-66 Color Filter, Red	640-700
T37014-0069	KS-69 Color Filter	660-740
T37014-0070	KS-6225T Color Filter	590-660