



Sucroflex

Digital Reflectance Colorimeter for Colour Grading of White Sugars

General

The most eye-catching quality factor of crystal sugar is its colour which may vary from brilliant white to yellow-brownish tones of different density. ICUMSA, the International Commission for Uniform Methods of Sugar Analysis, has defined a colour type scale for colour grading of white sugars which covers a range from 0 to 6, whereas 0 corresponds to a sugar of maximum whiteness, while 6 indicates a highly coloured low grade white sugar.

The Sucroflex replaces the manual method where sugar samples of unknown colour are moved along a line of 7 colour type standards to find visually the position where colour matching is best.

The instrument uses an Integrating Sphere Photometer to guarantee completely diffuse, shadeless illumination of samples. Grain size differences have no effect.

The photoelectric principle of operation is superior to the human eye and approved by ICUMSA. The instrument provides reproducible results, independent of the operator.

To calibrate the colour type scale of the Sucroflex, two standards are required, each one for begin and end of the scale. For this purpose either sugar standards or ceramic standards, manufactured by Anton Paar GmbH, can be used.



Specifications	
Measuring principle	Photoelectric sphere photometer for measuring the green / red reflectance ratio of white sugar
Measuring range	0 to 19.99 CTU (ICUMSA colour type units) above 6 by extrapolation
Accuracy	0.01 CTU
Reproducibility	± 0.04 CTU
Light source	Tungsten-halogen lamp, 6 V, 10 W, average life 2000 h
Optical wavelength	495 and 620 nm, tolerance 1%, bandwidth 20 nm
Photodetectors	2 silicon photodiodes
Interface	RS-232C serial data port
Dimensions and weight	210 x 310 x 315 (W x D x H), 7 kg
Power requirements	Self adapting to any mains voltage of 90-264 VAC, 47-63 Hz
Calibration	Calibration either by ceramic or sugar standards of about 0 and 6 CTU
Sample Cup	45 mm ID, depth 20 mm
Standards	ICUMSA, conform to method GS2-13 (2007)

Anton Paar® GmbH

A-8054 Graz, Anton-Paar-Str. 20

Tel.: +43 (0)316 257-0, E-mail: info@anton-paar.com Fax: +43 (0)316 257-257, Web:www.anton-paar.com

Instruments for:

Density & concentration Colloid science

measurement High-precision temperature measurement

Rheometry and viscometry Refractometry
Sample preparation Polarimetry

Microwave synthesis X-ray structure analysis

Specifications subject to change without notice

Your distributor: