SEO Dynamic Contact Angle Systems

SEO DCA 200 series Analyzers

The SEO DCA series 200 analyzers offer a powferful, and versatile approach to comprehensive understanding of the complex interactions at liquid-liquid and liquid-solid surfaces. Whether you need to improve adhesion, apply a coating, or modify a surface, a SEO DCA system provides the solutions for:

- · Dynamic Contact Angle of general solid materials.
- · Dynamic Contact Angle of a powders, Washburn Method.
- · Surface / Interfacial Tension
- · Surface energies, wettability, cleanliness and topographical homogeneity of solid sheets, films, and fibers.
- Dry materials absorption, wicking rate
- · Surfactants analysis with the automatic / manual Critical Micelle Concentration, CMC, software.

SEO Quantum-S Software

SEO Quantum-S is windows based software which accomplishes all DCA functions with ease. Using Wilhelmy Plate and DuNöuy ring methods.

- Dynamic Contact Angle Measurement
- · Surface tension Measurement to ASTM / DIN / ISO
- · Interfacial Measurement

- · Surface energies Measurement
- · Surfactant studies (Critical Micelle Concentration, CMC) with optional accessory

SEO DCA Application

- · Film / Fibers
- Powders
- Composites
- Adhesives
- Bio-Polymers
- · Inks
- · Paints
- · Oil recovery
- Shampoos
- Cosmetics
- Detergents
- · Pharmaceuticals
- · Eye-Care products
- Moisture Barriers
- · Semiconductor & Electronics
- · LCD, OLED display



SEO DCA 200

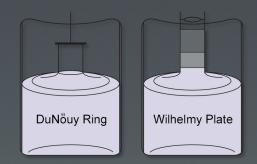


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SEO Quantum-S offers the best flexibility

The Quantum-S software is designed for all SEO DCA systems operated under the Quantum-S software. The DCA software allows method storage, development, real time, buoyancy correction and a complete range of analyses, including an automatic run mode. The SEO DCA software expands your analysis capabilities even further by offering like these;

- · Critical Surface Tension Zisman Plot.
- · Surface Energies. (Geometric ,Harmonic, Lewis Acid/Base)
- · Washburn Method.
- · Density Measurement.
- · Liquid Surface Tension components.
- · Wicking rate measurement.
- · Data can be exported as an Excel file, offering the highest flexibility.
- Data acquisition and data analysis can be performed automatically and / or manually according to method and setting.
- User can test CMC doser and stirrer and temperature accessory separately.



Technical Data

Model	DCA 200S	DCA 200A
Specifications		
Contact angle range	1- 180	0
Resolution (ug)	100 ug	0
Surface Tension Range (mN/m)	1-1000	0
Resolution (mN / m)	0.01	0
Max.Capacity (gram)	250	0

Dynamic Conta

Dynamic Contact angle	0	0
Surface Tension (Wilhelmy / DuNöuy Ring)	0	0
Interfacial Tension	0	0
Surface free Energy	0	0
Powder Wettability (Washbun method)	Option	0
Zisman Plot	0	0
Density	Option	0
Wicking rate	0	0
CMC (Critical Micelle Concentration)	Option (Auto / Manual)	Option (Auto / Manual)
Fiber measurement	≥100 µm	≥ 100 µm
Data Output (Excell)	0	0
Calibration (automatic)	0	0



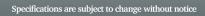
Sample stage range	110mm	0
Speed	1mm / min ~20mm / min	0

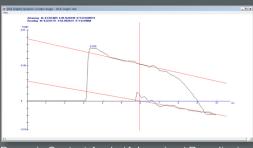
Temperature Control

Internal circulation Chamber	O	0
Tem. range	-35 °C to 150 °C	0
Stir	Option	0
Heat / Cool Water bath	Option	Option

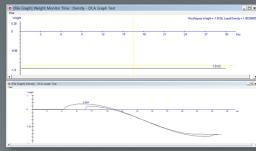
Other

Others		
Size (mm / inch)	320 (L) x 230 (D)x 560 (H)	0
	13 (L) x 9 (D) x 22 (H)	0
Weight (kg/lbs)	23 kg / 50 lbs	0
Electric Power	110V / 220V / 50Hz / 60Hz	0

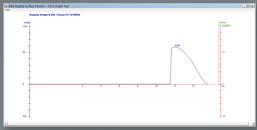




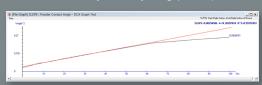
Dynamic Contact Angle (Advancing / Receding)



Two separate display areas show acquisition data and analysis data



Surface Tension by DuNöuy Ring (ASTM)



Washbun Method for powder measurement



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