

Evaluation of Paints, Inks, Additives for the coating processes

DyneMaster DY-300

Automatic Surface Tensiometer

New model of multi-talent and user friendly operation with dialog guidance, which is developed with Kyowa's experiences and know-how acquired by the 50 years' manufacturing surface tensiometers.

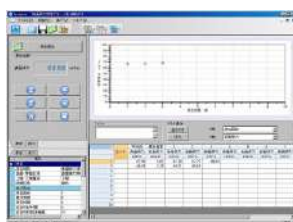
Features:

- ◆ Fully automatic operation by single command button.
- ◆ For QC use, repetition of measurement can be pre-set.
- ◆ For surfactant solutions, graph of variations over time can be plotted.
- ◆ For R&D use, functions of graph overwriting and data converting to spreadsheet are prepared.
- ◆ Measurements of lamella length, and liquid density are available in addition to surface/interfacial tension.

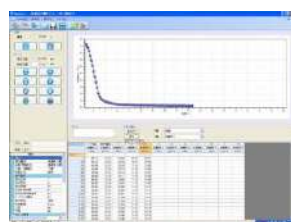


DY-300

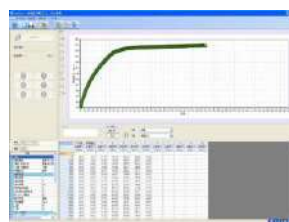
Screens:



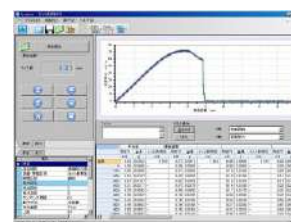
Surface tension (Static mode)



Surface tension
(Dynamic variations over time)



Surface tension
(High viscous material)



Lamella length

Typical applications:

- ◆ **Surface tension:** evaluating detergency of detergents, wettability of coating agents
- ◆ **Interfacial tension:** evaluating emulsification property of water/oil
- ◆ **Lamella length:** evaluating foaming stability of coating agents
- ◆ **Liquid density:** measuring density of liquids



DY-300
Main body opening
the front door

Specifications:

Measurement method	Wilhelmy Plate method, du Noüy Ring method
Measurement range	0 - 1000 mN/m
Measurement accuracy	0.2 mN/m *standard deviation of repeatability
Resolution	0.01 mN/m
Stage speed, Stroke	0.1 - 1.0 mm/s, Stroke 48mm
Measurement temperature	Room temp. - 150°C (Heater type stage system) -10 - 90°C (When using jacket type stage with water circulator capable controlling temperature from -20 to 100°C at least)
Software	Standard: Surface/interfacial tension, Lamella length, Liquid density
Detecting parts	Standard: Platinum plate Option: Platinum ring, Pycnometer for liquid density, Accessory for sedimentation
External dimensions	255(W) × 309(D) × 369(H)mm
Weight	About 12.5kg
Electric power	AC100-240-50/60Hz 35W 75VA

The specifications are subject to change without notice.

KYAG1803