

Digital Surface Tension Analyzer

DST Series



The information of surface or the interfacial tension is critically important in applications such as detergency and emulsification and is also important for many biological processes. Especially, the Du Nöuy Ring method and the Wilhelmy Plate method are commonly used for measuring surface / interfacial tensions.

The DST Series are precise tension meters (with Digital LCD display) for the measurement of surface (Liquid - vapor) & interfacial tensions (Liquid - Liquid) using both the Du Nöuy ring and the Wilhelmy plate.

The DST Series is upgraded version of the manual system and can measure the surface / interfacial tensions automatically and precisely using the Du Nöuy Ring method or Wilhelmy

The sample stage can be automatically operated so that the errors from manual operation can be significantly minimized and the accuracy can be maximized. The surface and interfacial tension results can be gotten quickly with no additional calculations and the measured result and data can be shown easily on the LCD display and printed out.



DST - 30



DST - 60



DST - 100

DST Series

The DST Series system is designed for Educational, Quality Control, and other multiple user applications. By simply operating the sample stage manually, you can get the surface / interfacial tension results quickly with no additional calculations. This system has two kinds of controllers for precisely operating the sample stage so that the accuracy and reliability of results can be higher.

Features

- Du Nöuy ring (Platinum - Iridium) method / Wilhelmy Plate method.
- Auto calculation of Surface tensions.
- Ergonomic, user friendly design.
- Automatic or Manual lift system.
- Accurate and simple operation.
- Temperature Control : -10°C to 100°C
- Print function for DST 60 and DST 100

Typical Application

- Measurement of Surface and Interfacial Tensions of liquid.
- Determination of properties of surfactant / emulsifying agents.
- Petroleum and fuels applications.
- Evaluation of the reformulation of paint and ink.
- Chemical / Biological application.

Options

- Heat / Cool circulator (-10°C to 100°C)
- Thermal Chamber
- Printer Function

Technical Data

| Model | DST 30M | DST 60M, DST 60A | DST 100 |
|-------------------------------------|-------------------------------|-------------------------------|----------------------------------|
| • Methods | Du Nöuy ring | Du Nöuy ring / Wilhelmy plate | Du Nöuy ring / Wilhelmy plate |
| • Measuring range | 0 to 500 dynes / cm (mN/m) | 0 to 500 dynes / cm (mN/m) | 0 to 500 dynes / cm (mN/m) |
| • Balance Capacity | 100 grams | 100 grams | 100 grams |
| • Sample stage operation | Precise manual stage | Automatic / Manual stage | Automatic |
| • Liquid vessel | glass container (50 ml) | glass container (50 ml) | glass container (50 ml) |
| • Power supply | 110 to 220 AVC | 110 to 220 AVC | 110 to 220 AVC |
| • Dimension (L x W x H, in / mm) | 16 x 9 x 15 / 400 x 230 x 380 | 12 x 9 x 15 / 300 x 228 x 385 | 16.5 x 39 x 12 / 340 x 450 x 300 |
| • Weight | 7kg | 8kg | 15kg |

SEO reserve the right to change specifications without notice



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