



EasyDyne

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The **EasyDyne** instrument is a tensiometer for measuring surface and interfacial tension of liquids using the Wilhelmy Plate or the Du Noüy Ring method. In addition, it is able to determine the density of liquids.

- **Fully automatic SFT and IFT measurement**
- **Calibration data is stored internally**
- **Robust, max. load 50 g**
- **Illuminated sample compartment**
- **Wind shield**
- **Adjustable feet**
- **Fast positioning of the sample**

KRÜSS

EasyDyne

The instrument combines ease of use, flexibility and robustness. Special attention during development was turned to the simple operation of the instrument with making no concessions elsewhere. The motorized sample stage can be adjusted manually as well to ensure quick preparation of measurements while it is driven smoothly by an electric motor during the measurement. Measurements are carried out

automatically, controlled by the built-in micro processor. Statistical and correction methods are implemented so that the final measuring results can be read directly from the illuminated graphical display. Calibration has to be done just once independently of the measuring method, since all parameters and calibration data are saved automatically. For accurate measuring results the instrument is equipped with a windshield to

avoid influence from air flow. The large sample compartment together with the long travel distance of the stage ensures easy handling and use of large samples. The illumination assists during the sample positioning. Because of the robustness, ease of use and short measuring times the EasyDyne is excellent for quality control applications.

Applications

- **Testing of transformer oils**
- **Detection of surfactants in waste water**
- **Quality control**

Technical Specification

Measuring range:

- SFT/IFT: 1 ... 999 mN/m
- Density: 1 ... 2200 kg/m³
- Temperature: -10 ... 100°C

Resolution:

- SFT/IFT: +/- 0.1 mN/m
- Density: 1 kg/m³
- Temperature: 0.1°C (optional)

Sample positioning:

- Stage speed: 0.15 ... 1.5 mm/s (adjustable in 100 steps)
- Travel distance: 75 mm

Ring correction:

Zuideman & Waters,
Harkins & Jordan

Display:

320 x 240 pixel

Data output:

RS232, USB

Power consumption:

max. 10 W

Power supply:

100 ... 240 VAC, 47 ... 63 Hz

Weight:

11 kg

Dimensions:

270 x 420 x 350 mm (WxHxD)

Basic instrument / accessories

EasyDyne Tensiometer for measuring surface and interfacial tension with data transfer to PC or printer

SW1002 Data Logger Software (for LabDesk™)

TJ1020 Thermostatable Jacket for sample vessel with outer diameter Ø 70 mm

TB14 Laboratory Cryothermostat for working temperature range from -20°C to 100°C (253-373 K)

TP1010 Temperature Probe for measurement of sample and environmental temperature

RI21 PtIr-Ring in wooden box

PL21 Pt-Plate in wooden box

CP0501 Adjustment Set with DKD Certificate

DE01 Set for Determining Density of Liquids consisting of PtIr-hook and KRÜSS standard weight made of silicon crystal

PR0510 Dot Matrix Printer for printing of measuring results, incl. data transmission cable

Technical specifications are subject to change without notice.



<http://www.kruss.de>

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