THE WORLD LEADER IN SURFACE TENSION INSTRUMENTATION

KIBRON EZ-PI+
Tensiometer for the analytical laboratory
Turning surface science into modern, high performance technology
KIBRON EZ-PI+
SURFACE TENSION AND INTERFACIAL TENSION
THE EASY WAY

Kibron EZ-Pi+ is a compact, an easy-to-use, high precision instrument for measuring surface tension and interfacial tension of liquids with built-in temperature compensation and stirring. EZ-Pi+ connects to a water bath to keep the samples at a constant temperature.

- A reliable, high precision instrument for challenging applications; eg. surface tension of viscous materials
- An easy-to-use tensiometer for advanced research in surface chemistry
- A robust tensiometer for educational purposes, no special training needed

Kibron EZ-Pi+ delivers accurate and precise surface tension and interfacial tension data for surfactants and detergents, emulsifiers, cosmetic ingredients, adhesives and printing inks, chrome plating baths, etc. with minimal maintenance. For the first time an affordable, high precision tensiometer is available for researchers so they can concentrate on their applications and generate reliable data instead of making difficult measurement.

THE METHOD OF CHOICE

All Kibron instruments uses the best, most sensitive and most precise method for the measurement of surface tension: a combination of the Du Nuoy-Padday et al. ‘Maximum Pull Force Technique’ and Kibron’s proprietary sensor, a Unique Ultrasensitive (1.6 micrograms) microbalance. This technique is unmatched in its performance and yields accuracy far better than obtained using filter paper or platinum Wilhelmy plates or du Nuoy ring, which are used in the tensiometers and Langmuir-troughs made by our competitors. The correction for buoyancy is unnecessary as at the point of maximal pull no part of the probe is immersed into the liquid The method also works for highly viscous liquids: oils, polymers, paints and the like.

“\nOur mission is to convert sophisticated surface chemistry techniques into cutting-edge R&D tools for industry as well as academia, yielding better, safer and more ecological products, from oil industry to pharmaceuticals, inks and agrochemicals, to cosmetics, paints, surfactants and detergents.”
FOR EASE OF USE AND REPRODUCIBILITY THE KIBRON EZ-PI+ ACCESSORIES HELP YOU TO GET THE MAXIMUM OUT OF YOUR MEASUREMENTS

REQUIRED ACCESSORIES, SPECIFICATIONS & BENEFIT

DyneProbe
Microsize du Noüy probe
- Inert metal alloy Ø 0.51mm
- Allows for small sample volumes
- Easy to clean, economical to use

DyneCup
Sample cuvette
- Borosilicate glass
- For interfacial tension measurement
- Washable and reusable

OPTIONAL ACCESSORIES, SPECIFICATIONS & BENEFIT

ProbeHandler
- Mounting / demounting tool for the DyneProbe
- Ease of use and help protecting the microbalance

ProbeStation
- Station for the ProbeHandler, and for the spare DyneProbes
- Ease of use and avoid contamination

TWO MEASUREMENT METHODS WITH KIBRON DYNEPROBE

WILHELMY
Surface tension
- Surface tension at varying surface age
- For high viscosity samples
- No edge effects as found in plates

DU NOÜY-PADDAY*
Surface tension and interfacial tension
- eg. for aqueous samples, solvents, inks
- Recommended viscosity < 100cp
- No correction factors as with rings


Kibron Inc. manufactures state-of-the-art tensiometers, langmuir-blodgett troughs and gravimetric balances as well as customer specified surface chemistry equipment and screening technology to overcome today’s challenges in chemical industry. Since its founding, 1994, Kibron has focused on innovation, user benefits and dependable service.

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