Automatic Interfacial Tension Tester (resolution 0.001 mN/m; balance precision: 0.01 mg)

BGD 234-3

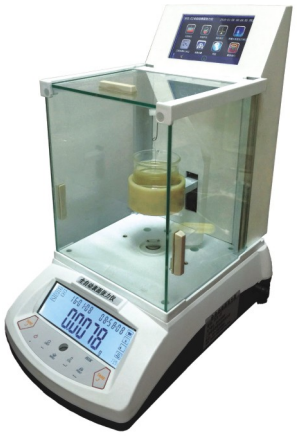
Product Description

This instrument is designed with ISO 6295, ISO 1409, ASTM D1417, EN 14370 etc "Test Methods for Interfacial Tension of Petroleum Products between Oils and Water (Ring Methods) ".

It is suitable to determine interfacial tension between mineral oils and water under non-equilibrium conditions (Liquid-liquid interface). It can also be used to determine surface tension of various liquids (liquid-gas interface).

With an advanced electromagnetic balanced force sensor, operator can get high precise and reproducible testing result.

Large 5" touch-screen can show the current environment temperature, current tension, peak tension, the equivalent tension tec, easy to operate.



Standards

- ISO 6295
- ISO 1409
- ASTM D1417
- EN14370

Technical Specification

- Built in two testing methods, platinum ring and platinum plate, the operator can choose anyone or both
- Full automatic operation can eliminate all human error. Platinum plate can lock liquid interface automatically, platinum ringsho the values directly.
- Calibrates automatically in full range: weights weight, pure water tension and ethanol tension
- With an elaborate ball screw, the lift system is low-noise, and its rising & falling speed can be adjusted.
- The lifting bracket is designed to install and disassemble the platinum ring and platinum plate easily. Operator can calibrate force value anytime by standard weight
- Peeling function by one button, no drift to zero point and no beat for showing data
- Automatic compensation for environment temperatute: taking the water and ethanol as standard, the tester converts automatically the sample's tension value under 20 °C

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- Data collection software optional

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Main Technical Parameters

Ordering Information →	BGD 234-1	BGD 234-2	BGD 234-3
Parameters ↓			
Measurement range	0-1000	0-1000	0-1000
Resolution (mN/m)	0.1	0.01	0.001
Accuracy (mN/m)	0.1	0.01	0.001
Repeatability (mN/m)	0.1	0.01	0.001
Balance precision (g)	0.001	0.001	0.00001
Testing Methods	Design platinum plate and platinum ring, either one or both		
Operation Methods	Touch operation, sample plate lifts automatically, converts automatically		
Showing Method	5 inch coloured touch screen		
Weighing System	Electromagnetic Balance		
Automatic Calibration	Yes		
Data Processing Software	Yes		
Mini-printer interface	Optional		
Testing Time	In 10 seconds for platimum plate; 50 seconds for platinum ring		

Disclaimer