

Automatic Interfacial Tension Tester

This instrument is designed with ISO 6295, ISO 1490, ASTM D1417, EN14370 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).

Features:

- ◆ With a advanced electromagnetic balanced force sensor, operator can get high precise and reproducible testing results.
- ◆ Big (5 ") touch screen can show the current environment temperature, current tension, peak tension, the equivalent tension tec, easy to operate.
- ◆ Built in two testing methods---platinum ring and platinum plate, operator can choose anyone or both
- ◆ Full automatic operation can eliminate all human error. Platinum plate can lock liquid interface automatically, platinum ring shows tension curve, and peak tension will be locked automatically, without any conversion, the screen tension will shows the values directly.
- ◆ Calibrate automatically in full range: weights weight, pure water tension and ethanol tension
- ◆ With an elaborate ball screw, the lifte system don't have any noise, and its rising & falling speed can be adjusted.
- ◆ The lifting bracket is designed to install and disassemble platinum ring and platinum plate easily. Operator can calibrate force value anytime by standard weight
- ◆ Peeling function by one button, no drift for zero point and no beat for showing data
- ◆ Automatic compensation for environment temperature: taking the water and ethanol as standard , the tester converts automatically the sample's tension value under 20 °C
- ◆ Data collection software for optional



| Ordering Information → Technical Parameters ↓ | BGD 234/1 | BGD 234/2 |
|--|---|-----------|
| Measurement Range (mN/m) | 0–1000 | 0–1000 |
| Resolution (mN/m) | 0.1 | 0.01 |
| Accuracy (mN/m) | 0.1 | 0.01 |
| Repeatability (mN/m) | 0.1 | 0.01 |
| Balance Precision (g) | 0.001 | 0.0001 |
| Testing Methods | Design platinum plate and platinum ring, can choose anyone or both | |
| Operation Methods | Touch operation, sample plate lift automatically, convert automatically | |
| Showing Method | 5 inch coloured touch screen | |
| Weighing system | Electromagnetic balance | |
| Automatic Calibration | Yes | |
| Data Processing Software | Optional | |
| Mini-printer Interface | Optional | |
| Testing Time | In 10 seconds for platinum plate, 50 seconds for platinum ring | |