Automatic Interfacial Tension Tester

This automatic interfacial tension tester determines interfacial tension between mineral oils and water under non-equilibrium conditions. It can also determine interfacial tension of various liquids, offering automatic temperature compensation and data analysis.

Overview

Precision Interfacial Tension Analysis

The Automatic Interfacial Tension Tester is a specialized instrument designed for the accurate and reliable measurement of interfacial tension between liquids. Utilizing the ring method, it provides consistent results essential for quality control and R&D in the petroleum, chemical, pharmaceutical, and food processing industries. The system features an automated control unit and a high-precision sensor, ensuring repeatable measurements and streamlined operation for professional laboratory environments.

Measurement Performance

Key Performance Indicators

0.1 mN/m	0.3 %
Sensitivity	Repeatability

Measurement Ranges

Application	Range
Insulating oil	2–100 mN/m
Other petroleum products	2–200 mN/m

Technical Specifications

Power Supply	AC 220V±5%, 50 Hz
Rated Power	100 W

Physical Dimensions

Dimensions	185 mm × 260 mm × 360 mm
Weight	15 kg

Environment

Operating Environment

- Ambient temperature: 10 to 30
- Relative humidity: 20% to 75%

Interface & Control	
Display	Large LCD screen with background light and prompt menu
Standards Compliance	GB/T6541