

||||| **TD4 tensiometer** – Automatic measurement of surface and interfacial tension



||||| **User-friendly, precise, compact**

ASTM D971, EN 14210, EN 14370, IEC 62961, EN 14059 compliant

- || Flexible for research and quality control
- || User-friendly with predefined standard methods
- || Precise, high-resolution distance measurement
- || Optional temperature control, no additional space required

TD4 – compact and precise for the measurement of surface and interfacial tension

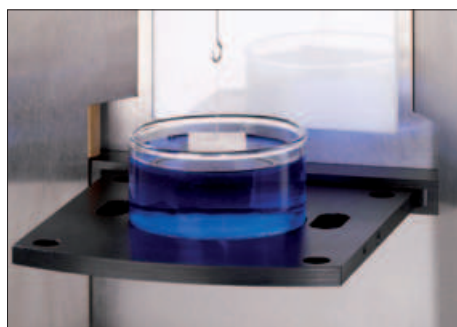
For research, quality control and product development

The ring/plate method for the measurement of surface and interfacial tension in liquids is an established method with future potential: The increasing demand for surface-active additives and their detection in quality control requires automated and user-friendly devices. As a stand-alone device the compact ring/plate tensiometer TD4 offers everything you require for research and development, as well as for quality control.



Simplified selection of measuring method

- || Software with standard-compliant methods for insulating oils, lamp oils, tensides etc.
- || Ergonomic, intuitive operation with simple user guidance
- || Reliable device for routine measurements in the chemical industry, pharmacy and quality control
- || Integrated user management with different user levels in accordance with GLP



Reliable measurement thanks to the precise force- and position-measurement

- || Precise plate measurement via accurate position measurement and automatic surface recognition
- || Regulation of lamella length and fine adjustment of table speed for measurements with even the smallest differences in density
- || High precision and reproducibility even at low interfacial tension thanks to variable measuring parameters
- || Density measurement using the immersion body included with the delivery



Accurate temperature control with PTT+

- || Low space requirement with convenient controls
- || Temperature-controlled measurements between 5 and 80 °C without external cooling
- || Visualization of measuring status for optimized laboratory processes

Technical data

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|-----------------------------------|--|---|
| Surface tension resolution | 0.01 mN/m | Ring correction automatic in accordance with Zuidema and Waters |
| Weighing system resolution | 0.1 mg | Integrated methods in accordance with ASTM D971, EN 14210, IEC 62961, EN 14370, EN 14059 and other standards |
| Measuring range | 0.75 mN/m to 300 mN/m
(999 mN/m with plate) | Ambient temperature range 10...40 °C |
| Dimensions W x D x H | 245 x 205 x 335 mm | Power consumption 15 W |
| PTT+ temperature range | 5...80 °C | Weight 10.4 kg |
| Density | up to 0.002 g/cm ³ | |