

||||| **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

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