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

User-friendly, precise, compact

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

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

Technical data

- **Surface tension resolution**: 0.01 mN/m
- **Weighing system resolution**: 0.1 mg
- **Measuring range**: 0.75 mN/m to 300 mN/m (999 mN/m with plate)
- **Dimensions W x D x H**: 245 x 205 x 335 mm
- **PTT+ temperature range**: 5...80 °C
- **Density**: up to 0.002 g/cm³
- **Ring correction**: automatic in accordance with Zuidema and Waters
- **Integrated methods**: in accordance with ASTM D971, EN 14210, IEC 62961, EN 14370, EN 14059 and other standards
- **Ambient temperature range**: 10…40 °C
- **Power consumption**: 15 W
- **Weight**: 10.4 kg

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

For further information, visit our website: www.lauda-scientific.de