

DIGITAL TENSIO METER

mod. **DCA**



GENERAL FEATURES:

- Display of surface tension value expressed in mN/m (dyne/cm) measured with the Wilhelmy method
- Precision: ± 0.02 mN/m (dyne/cm)
- Capacity: $\pm 1-1000$ mN/m resolution 0.01 mN/m
- Max capacity: 110 g
- Autocalibration with internal mass
- Power source: 230 V -15% +10% by external power supply, 50 Hz
- Power consumption: 10 VA
- Dimensions: 210x370x380 mm.
- Weight: 8 Kg

EQUIPMENT

- Manual adjustable lab jack
- Thermometric probe PT 100 1/3 DIN., temperature range: 0-50°C, Accuracy: $\pm 0.05^\circ\text{C}$, Readability: 0,1 °C
- Glass plates (dimensions 24x24x0.15 mm)
- Suspended system for the arrangement of glass plate
- Glass container for liquid sample

ACCESSORIES ON REQUEST:



- Platinum Wilhelmy plate
- Platinum Du Nouy ring
- Floater calibrated in weight and in volume and double wall cylinder for density measurement:
 - range of measure for the density: 0.5 ÷ 2.25 g/cm³
 - readability: 0,00005 g/cm³
 - reproducibility: $\pm 0,00005$ g/cm³



- Specific container for sample thermostatisation
- special pan for metrological control

DIGITAL TENSIO METER

mod. **DCA 400**



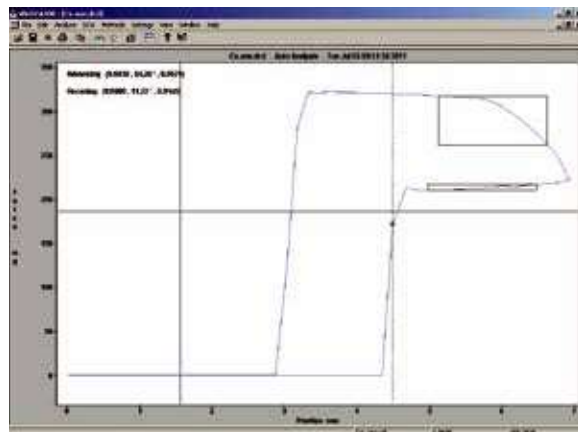
DIGITAL TENSIO METER

Display of surface tension value expressed in mN/m (dyne/cm) measured with the Wilhelmy method
 Precision: ± 0.02 mN/m (dyne/cm)
 Capacity: 1-1000 mN/m resolution 0.01 mN/m
 Max capacity: 110 g
 Autocalibration with internal mass
 Contact angle 0-180 degrees
 Dimensions: 210x370x380
 Weight: 8Kg
 Power supply 100/240 VAC by external power supply, 502 Hz
 Consumption: 10 VA

EQUIPMENT

Glass plates (dimensions 24x24x0.15 mm)
 Suspended system for the arrangement of glass plate
 Glass container for liquid sample
 manual adjustable lab jack
 Software with the following performances:
 contemporaneous display on PC:
 - force changes during the measurements
 - past time
 - surface tension value
 data recording (useful for other elaborations)
 changing value of perimeter plate (if different from the standard)
 Automatic jack with programmable speed (from 21 to 1000 $\mu\text{m/s}$)

Automatic feature allow you analyze a dynamic hysteresis curve, complete with on-screen advancing, receding and zero depth of immersion results for contact angle or surface tension



ACCESSORIES INCLUDED:

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 Platinum Du Nouy ring
 Floater calibrated in weight and in volume and double wall cylinder for density measurement:
 - range of measure for the density: $0.5 \div 2.25$ g/cm³
 - readability: 0.00005 g/cm³
 - precision and reproducibility: ± 0.00005 g/cm³

ON REQUEST:

Specific container for sample thermostatisation
 Special plate for metrological control