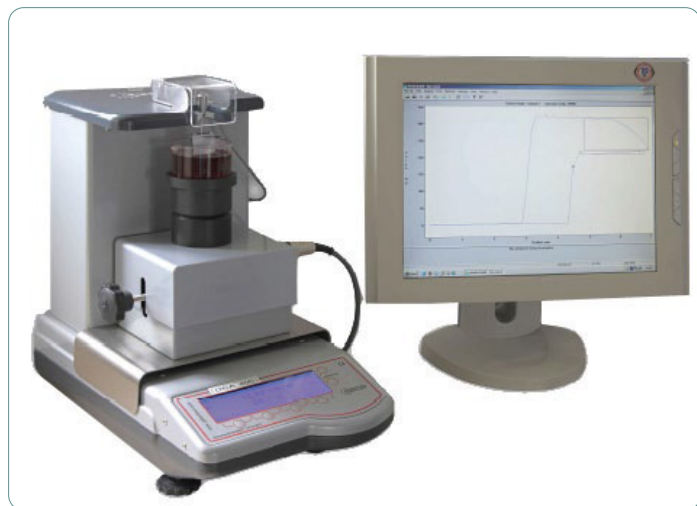


DCA 400: Digital contact angle



Software with the following performances

- a) contemporaneous display on PC:
 - » force changes during the measurements
 - » past time
 - » surface tension value
- b) data recording (useful for other elaborations)
- c) changing value of perimeter plate (if different from the standard)
- d) selection of manual or automatic system for the end of measurement determination

Technical specifications

- » Power source: 230 V -15% +10% by external power supply, 50 Hz
- » Power consumption: 10 VA

Digital tensiometer

- » 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

Equipment

- » Glass plates (dimensions 24'24'0.15 mm)
- » Suspended system for the arrangement of glass plate
- » Glass container for liquid sample manual adjustable lab jack
- » Automatic jack with programmable speed (from 21 to 328 mm/sec)
- » Platinum Wilhelmy plate
- » Platinum Du Nouy ring
- » Floater calibrated in weight and in volume and double wall cylinder for relative density measurement:
 - » range of measure for the density: 0.5 ÷ 2.25
 - » readability: 0.00005 g/cm³
 - » precision and reproducibility: ± 0.00005
- » Specific container for sample thermostatisation
- » Special pan for metrological control
- » Thermometric probe PT 100 1/3 DIN
 - » Range of measure: 0-50 °C
 - » Accuracy: 0.05 °
 - » Readability: 0.1 °C