

Pressure-based double dosing system

Determining the surface energy of solids quickly and easily

dataphysics
Understanding Interfaces

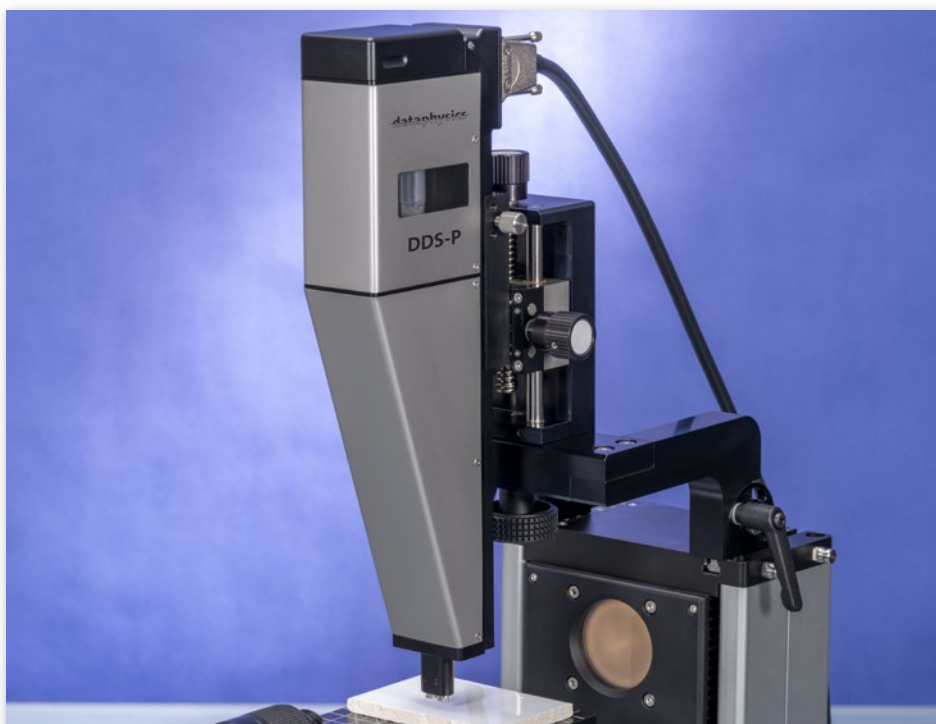
With the **pressure-based double dosing system DDS-P** two liquid drops can be dosed onto a solid sample simultaneously. Together with an optical contact angle measuring and contour analysis system of the OCA series the **determination of the surface energy of solids is exceptionally fast and easy.**

The DDS-P is primarily designed for the test liquids water and diiodomethane, but other liquids can be used as well. The liquid reservoirs hold enough liquid for up to **3000 individual measurements.**

The OCA software uses the DDS-P to dose two drops, automatically measures their contact angles and determines the surface energy — all **with just one click.** The entire process from starting the measurement to receiving the result takes **less than a second.**

Advantages & main applications of the DDS-P

- fast analysis of the surface energy of solids
- objective and user-independent results
- quality assurance of coatings, surface treatments and other production processes
- surface characterisation in research and development departments with high sample throughput rates
- evaluation of surface cleaning processes



Pressure-based double dosing system DDS-P



Simultaneous evaluation of contact angles



Dosing valves of the DDS-P

Technical data

Typical test liquids	water and diiodomethane
Typical drop size	≅ 1 µl
Drop size accuracy	± 0.1 µl
Cartridge volume	3 ml
Number of measurements per filling	up to 3000
Dimensions (L x W x H)	90 mm x 45 mm x 320 mm
Weight	1 kg
Power supply	powered by OCA system