

FDDS FlexDrop dosing system

Easy to use, flexible dosing system for contact angle meters of the OCA series

dataphysics
Understanding Interfaces

The FDDS FlexDrop dosing system is a module for the contact angle measuring devices of the OCA series. The OCA series combines high resolution optics, accurate liquid dosing and precise sample positioning into powerful and reliable measuring systems for the characterisation of interfaces and surfaces.

The innovative dosing technology and precise control of the FlexDrop allow the analysis of solid surfaces with the smallest droplets with pinpoint accuracy and reproducibility. This enables the analysis of delicate surface structures.

Users can easily change the test liquid cartridge and replace it with a new one in a few simple steps, completely eliminating the need for cartridge cleaning. In addition, cross-contamination can be

avoided when measuring with different liquids. This makes it possible to perform measurements with viscous suspensions or inks.

The small droplet size makes it easy to clean the sample surface after measurement, as the droplets evaporate quickly. This is particularly useful when measurements are made as part of quality control and the components are to be re-used.

Tiny drops for accurate contact angle measurements

The FlexDrop can be equipped with dosing heads for droplet volumes in the nanolitre or picolitre range. This allows the dosing of the smallest individual droplets for contact angle measurements and advanced wetting analysis.

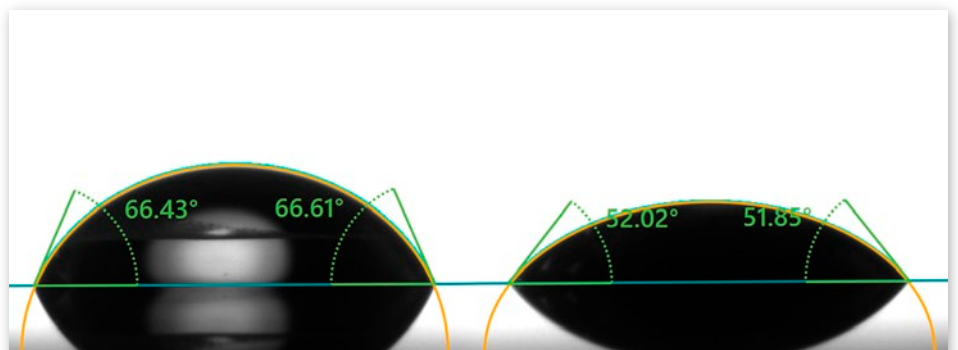
One-click, two-drop surface energy determination

The FlexDrop can also be equipped with two dosing heads at the same time. For the first time, users can perform simultaneous measurements on two droplets on structures as small as one square millimetre at the touch of a button. The simultaneous dosing of two droplets is particularly advantageous for the determination of surface energy, which requires at least two test liquids, often water and diiodomethane.

Its superior technology makes the FDDS FlexDrop dosing system an essential, flexible tool for laboratories, research facilities and development departments.



The FDDS FlexDrop dosing system, shown here, is equipped with two dosing heads and two cartridges for measurements in the nanolitre range.



The simultaneous evaluation of the contact angles of two test liquids enables the determination of surface energy with a single click.

Technical data

Dosing heads (max. 2 at the same time)	Nano	Pico
Single drop volume	2 nl	25 pl
Cartridge volume	500 µl	100 µl
Dimensions (L x W x H)	48 mm x 36 mm x 240 mm	
Weight	350 g	
Power supply	powered by OCA system	