



DataPhysics Instruments Application & training centre



Range of services

- contract measurements & lab days
- demonstration testing
- personalised device & software trainings
- seminars & specialised training courses





Welcome to the application & training centre of DataPhysics Instruments

High-end measuring systems for the analysis of physico-chemical properties of surfaces and interfaces are being developed and produced at DataPhysics Instruments for customers around the globe.

We invite you to get to know us at our head office in Filderstadt just a quick ten-minute drive from the Stuttgart airport.

Here we run a modern **application & training centre** where we will gladly demonstrate and explain all the measuring techniques we have to offer.

You can either come visit us in person and measure together with our experts or request a contract measurement. In our **extensively equipped laboratory** we quickly and professionally perform exactly the right measurements that you require.

Our interfacial science specialists

Our team has **more than 20 years of practical experience** in surface and interfacial measuring techniques. Hence, we can competently support our customers in science and industry to tackle their challenging application questions and advance their projects.

Since satisfied customers are our driving force, we strive to find the **proper solution that individually fits your needs**.

What does your applicative challenge look like?

Contact us either via phone, email or our contact form. We are excited to discuss your projects with you.

In the following you will learn more about the range of services that we can provide.



Determination of the surface energy using an OCA 200



High temperature surface tension measurement with a DCAT 25



Measurement of ultra-low interfacial tension with a SVT 25



Dispersion stability analysis with the MultiScan MS 20

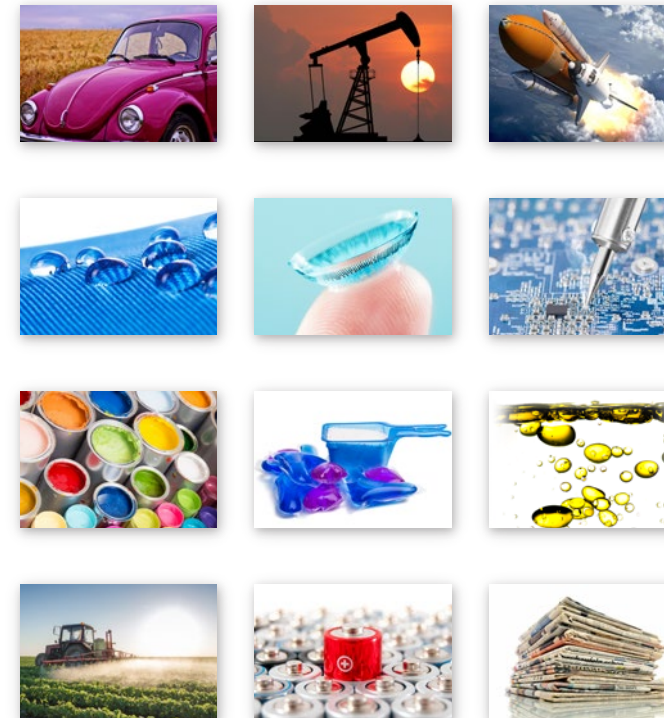
Device range in our application centre

- optical contact angle measuring and drop contour analysis systems of the OCA series
- dynamic contact angle measuring devices and force tensiometers of the DCAT series
- spinning drop video tensiometers of the SVT series
- dispersion stability analysis system MS 20
- humidity generator and controller of the HGC series
- zeta potential analyzer ZPA 25
- surface profile analyzer SPA 25

Measuring properties and measuring methods

- surface tension of liquids
- interfacial tension between two liquids
- static and dynamic contact angles
- surface energy of solids
- analysis of surface wettability
- force of adhesion between liquids and surfaces
- critical micelle formation concentration (CMC)
- density of liquids and solids
- sedimentation and penetration
- surface pressure of monolayers & deposition with dip coater
- surface and interfacial rheology parameters
- stability and aging analysis of liquid dispersions
- sedimentation and creaming rates
- analysis of destabilisation mechanisms like particle merging and clustering
- zeta potential of fibres, powders & plate shaped solid materials
- 3D surface profile analysis & roughness determination

Tailor-made solutions for various industries



Measurements conforming to standards

- ASTM D971
- ASTM D1331
- ASTM D1417
- DIN 55660
- DIN EN 14210
- DIN EN 14370
- ISO 304
- ISO 1409
- ISO 4311
- ISO 6295
- ISO 6889
- OECD 115



You can find a comprehensive list at:
dataphysics-instruments.com/standards/

Measurements at the fringe of possibility

- contact angle measurements with picolitre drops down to 30 pl
- wetting analysis with high-speed cameras > 3000 frames/s
- measurements at temperatures of -30 °C to 1800 °C
- measurements at relative humidity ranging from 5% to 90%
- measurements at pressures of 10⁻⁵ mbar to 750 bar
- SFT/IFT measurements ranging from 10⁻⁶ mN/m to 2000 mN/m
- surface profiles with height resolution of down to 0.1 nm



Contact angle measurement in the screw threads of a dental implant



Contact

Just give us a call
+49 711 770556-66

or send us an email
application@dataphysics-instruments.com

Additional information and a contact form can be
found on our website
www.dataphysics-instruments.com

DataPhysics Instruments GmbH
Raiffeisenstraße 34 • 70794 Filderstadt, Germany
phone +49 (0)711 770556-0 • fax +49 (0)711 770556-99
application@dataphysics-instruments.com
www.dataphysics-instruments.com

