

DROP SHAPE ANALYZER – DSA HIGH TEMPERATURE

SPECIFICATIONS



KRÜSS

Advancing your Surface Science

Product group specifications	DSAHT1600	DSAHT1800	DSAHT2000
Camera system			
Connection		ethernet	
Optics			
Focus		software controlled autofocus	
Magnification		1.87×	
Field of view		10 × 14 mm	
Resolution		down to 7μm	
Illumination			
Type		halogen, telecentric	
Field of light (D × H)		25 × 23 mm	
Software			
ADVANCE ¹⁾		contact angle	

Measurement specifications with ADVANCE ¹⁾	DSAHT1600	DSAHT1800	DSAHT2000
Sessile drop			
Result		contact angle	
Range		0 to 180°	
Resolution		0.01	
Models		conic section, polynom, circle, Young-Laplace, height-width	
Types		advancing, receding, static, dynamic, tilting	

¹⁾ optional

General specifications**DSAHT1600****DSAHT1800****DSAHT2000****Sample dimensions**

Maximum sample space

length: 20 mm, diameter: 7 mm

length: 20 mm, diameter: 5 mm

Temperature control

Heating element

SiC

MoSi

Graphite

Measuring system

Al₂O₃Al₂O₃

Graphite

Range furnace

up to 1600 °C

up to 1800 °C

up to 2000 °C

Range sample

up to 1550 °C

up to 1700 °C

up to 2000 °C

Heating rates

0 ... 1200 °C: 30 °C/min
1200 ... 1600 °C: 20 °C/min
> 1600 °C: 10 °C/min

Cooling rates

1600 ... 1100 °C: 10 °C/min
1100 ... 600 °C: 10 °C/min
600 ... 300 °C: 5 °C/min**Temperature measurement**

Accuracy

± 2.5 °C

Internal sensor

thermocouple type S

thermocouple type B

thermocouple type C

Location

at the sample

Vacuum control

Final Value

down to 10⁻⁵ mbardown to 10⁻⁴ mbardown to 10⁻³ mbar

Atmosphere

oxidizing, reducing, vacuum

inert, oxidizing, reducing, vacuum

inert, reducing, vacuum

Instrument dimensions

Footprint (W × D)

120 × 40 cm

Height

40 cm

Power supply

Voltage

230 V / 16A

