



Drop Shape Analyzer – DSA High Temperature Specifications



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	Al ₂ O ₃	Al ₂ O ₃	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 Atmosphere	down to 10 ⁻⁵ mbar oxidizing, reducing, vacuum	down to 10 ⁻⁴ mbar inert, oxidizing, reducing, vacuum	down to 10 ⁻³ mbar inert, reducing, vacuum
Instrument dimensions			
Footprint (W × D)	120 × 40 cm		
Height	40 cm		
Power supply			
Voltage	230 V / 16A		

