

ATC100

thermal connection between cold finger and sample

Technical Specifications

<b>Material</b>		<b>Sensor Upgrades</b>	
ATC100	gold-plated copper	ATC100/Si <sup>3)</sup>	integrated Si diode
		ATC100/Cer <sup>3)</sup>	integrated calibrated Cernox sensor (1.4 - 325 K)
<b>Size and Dimensions</b>		<sup>3)</sup> note: both temperature sensor upgrades include also a heater	
footprint base plate	24 x 26 mm	<b>Si Diode</b>	
footprint top plate	24 x 24 mm	temperature range	2 - 300 K
height base plate	3 mm	calibration curve	generic generation
height top plate	4 mm	<b>Cernox Sensor</b>	
thickness copper braid	0.4 mm	temperature range	1.4 - 325 K
length copper braid	35 mm; 60 mm; 70 mm	calibration curve	individual calibration file on CD
<b>Mounting</b>		<b>Heater</b>	
base plate - from the top	two through holes dia 2.7 mm, two through holes dia 1.6 mm, ---	material	Kapton foil
base plate - from the bottom	---	resistance	50 Ohm
top plate - from the top	four through holes, cntrb. f. M2 <sup>1)</sup>	power	max: 2 W
top plate - load on top	five through holes dia 2.2 mm	current	max: 0.2 A
<sup>1)</sup> note: mounting of the ATC100 top plate onto the ANSxyz100 is only possible with two M2 screws due to the hole pattern of the scanner top plate		<b>Article Numbers</b>	
<b>Thermal Conductivity<sup>2)</sup></b>		ATC100/35	1005260
ATC100/35	25 mW/K	ATC100/60	1005259
ATC100/60	15 mW/K	ATC100/70	1005253
ATC100/70	10 mW/K	ATC100/Si/35	1009327
		ATC100/Si/60	1009326
		ATC100/Si/70	1009325
		ATC100/Cer/35	1009334
		ATC100/Cer/60	1009333
		ATC100/Cer/70	1009332
<sup>2)</sup> mW/K refers to the amount of heat input (in mW) conducted via ATC100 to achieve a 1 K gradient between top and base plates			
<b>Working Conditions</b>			
temperature range	10 mK..300 K		
<b>Models</b>			
ATC100/35	suitable for ANPxy101 stack		
ATC100/60	suitable for ANPxyz101 stack		
ATC100/70	suitable for ANPxyz101 + ANSxyz100 stack		



Technical Drawings

