

# ANGp50

compact, open loop goniometer for  $\Phi$ -positioning

## Technical Specifications

<b>Technology</b>		<b>Compatibility with Electronics</b>	
travel mechanism	inertial piezo drive	ANC300 piezo positioning controller	all versions
		ANC350 piezo positioning controller	all versions
<b>Size and Dimensions</b>		<b>Working Conditions</b>	
footprint; height	15 x 15; 10 mm	mounting orientation	axis horizontal
maximum size	15 x 19.5; 10.5 mm	magnetic field range	0 .. 31 T
distance center of rotation to bottom	50 mm (above center)	temperature range (/RT, /HV, /UHV)	0 .. 100 °C
weight	7 g	temperature range (/LT, /LT/HV, /LT/UHV)	10 mK .. 373 K
		max. bake out temperature (/UHV, /LT/UHV)	150 °C
<b>Coarse Positioning Mode</b>		<b>Accuracy of Movement</b>	
	<b>@ 300 K</b>	<b>@ 4 K</b>	
input voltage range	0 .. 60 V	0 .. 60 V	repeatability of step sizes
typical actuator capacitance	525 nF	75 nF	forward / backward step asymmetry
travel range (step mode)	5.8°	5.8°	typically 5 % over full range
typical minimum step size	0.1 m°	20 μ°	typically 5 %
maximum drive velocity	≈ 1 °/s		
<b>Fine Positioning Mode</b>		<b>Connectors and Feedthroughs</b>	
fine positioning range	no fine positioning capability	<b>/RT, /LT Versions</b>	<b>all /HV, /UHV Versions</b>
<b>Materials (non-magnetic)</b>		connector type	2-pole pin plug, 2-pole pin plug (PEEK),
positioner body	titanium (other materials on request)		ø 0.5 mm, d = 2 mm,
actuator	PZT ceramics		30 cm cable with connector
connecting wires	insulated twisted pair, copper	electrical feedthrough solution	VFT/LT
			VFT/HV, VFT/UHV
<b>Load</b>		<b>mounting orientation: axis horizontal (@ 300 K)</b>	
maximum load	0.25 N (25 g)		
maximum static force along the axis	1.5 N		
maximum dynamic force along the axis	1 N		
<b>Mounting</b>			
from the top	2 through holes dia 1.7 mm, cntrbr. f. M1.6		
from the bottom	2 threads M2 x 3 mm		
load on top	3 threads M1.6 x 2.5 mm		
<b>Article Numbers</b>			
/RT Version	1002593		
/HV Version	1002591		
/UHV Version	1002592		
/LT Version	1002403		
/LT/HV Version	1002594		
/LT/UHV Version	1002595		

## Technical Drawings

