

# ANC350

multi-functional piezo motion controller for driving attocube closed loop positioners

## Technical Specifications

### Modes of Operation

versions	ANC350/RES, /NUM, /FPS
axes	3
open loop positioning	stepping and fine positioning of attocube positioners
closed loop positioning	depending on encoder system
capacitance measurement	50..5000 nF
remote operation	USB2.0, ethernet port optional

### Controller Hardware

chassis	19" rack, 2 rack units, 9 x 45 x 28.5 cm <sup>3</sup>
weight	5 kg
power supply	90 - 240 VAC, 50..60 Hz
power consumption	max. 100 W
connector	fused IEC inlet
connecting cable (ELE-POS)	1 per axis, length: 2 m

### Software Drivers

Windows, Linux	Stand-alone application for Windows XP <sup>TM</sup> , Vista <sup>TM</sup> , 7 <sup>TM</sup> , 8 <sup>TM</sup> DLL LabVIEW <sup>TM</sup> Epics (ethernet required) spec (ethernet required) Tango (ethernet required)
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### Output Signals

stepping - voltage range	0..70 V
stepping - frequency range	0..2 kHz
stepping - maximum current	> 8 A peak
resolution of signal generation	1.1 mV (16 bit)
output noise	<8 mVpp (20 MHz bandwidth)
output filter	additional switchable output filter (2.5 kHz)
maximum capacitive load	1.5 µF (more with reduced bandwidth)
zero voltage output in GND mode	connected to chassis ground directly
output connectors	SubD-Mix connector (female)

### Trigger Signals

trigger level definition	LV TTL (3.3 V), AquadB
trigger interface	GPIO port (26-Pin SubD connector)
input trigger	1 per axis (TTL or AquadB)
output trigger	1 per axis (AquadB)
setpoint bandwidth	1 kHz

### ANC350/3/RES

version	closed loop control for /RES encoded positioners
positioning controller	ANC350/3/RES/RT 1003064 ANC350/3/RES/Vac 1008440
upgrade option	ethernet port (activation code) 1004201 lock-in

### ANC350/3/FPS

version	closed loop control of open loop positioners with attoFPS setup
positioning controller	ANC350/3/FPS/RT 1008239 ANC350/3/FPS/Vac 1008443
interferometer setup	FPS1010 1007419 FPS3010 1007418 FPS3010 19" 1008535

### ANC350/3/NUM

version	closed loop control for /NUM encoded positioners incl. duty cycle option
positioning controller	ANC350/3/NUM/RT 1003063 ANC350/3/NUM/Vac 1008439
upgrade option	ethernet port (activation code) 1004201

## Photos

