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Specifications

For Aurora Scientific Model: 300C Series

Model #	300C	300C-LR	305C	305C-LR	309C	310C	310C-LR
Length Specifications							
Lever Arm Length [cm]	3.0	3.0	4.0	4.0	6.0	8.0	8.0
Length Excursion [mm]	10.0	10.0	20.0	20.0	25.0	40.0	40.0
Length Signal Resolution [micron]	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Length Scale Factor [mm/Volt ±2%]	0.5	0.5	1.0	1.0	1.25	2.0	2.0
Length Signal Linearity ¹ [%]	99.9	99.9	99.9	99.9	99.9	99.9	99.9
Length Step Response Time ² [millisecond]	1.3	1.3	2.0	2.0	4.0	8.0	8.0
Sinusoidal Frequency Response ³ [Hz]	530	530	300	300	135	90	90
Force Specifications							
Maximum Force [N]	0.5	1.0	5.0	10.0	20.0	50.0	100.0
Force Signal Resolution [mN]	0.3	0.6	1.0	2.0	4.0	10.0	20.0
Force Scale Factor [mN/Volt ±2%]	50	100	500	1,000	2,000	5,000	10,000
Force Signal Linearity ⁴ [%]	99.8	99.8	99.8	99.8	99.8	99.8	99.8
Force Step Response Time ⁵ [millisecond]	1.3	1.3	2.0	2.0	4.0	8.0	8.0
System Friction ⁶ [mN]	0.8	0.8	3.0	3.0	8.0	20.0	20.0
General Specifications							
Power Required	100, 120, 220, 240 VAC, 50/60 Hz. available						
Power Consumption [W]	120	150	180	300	400	700	1000
Controller Weight [kg]	8	8	8	8	10	10	18
Motor Weight [kg]	0.32	0.32	1	1	3.5	12	12
Controller Dimensions [cm]	48W (standard 19" rack mount) x 32D x 13H (3U)						

¹ Over full length excursion
² 1 to 99%, critically damped
³ -3dB point
⁴ Over full length excursion
⁵ 1 to 99%, critically damped
⁶ Over full length excursion