



Specifications

For Aurora Scientific Model: 300C-I/305C-I Series

Model #	300C-I	300C-LR-I	305C-I	305C-LR-I
Length Specifications				
Indenter Arm Length [cm]	3.0	3.0	4.0	4.0
Length Excursion [mm]	10.0	10.0	20.0	20.0
Length Signal Resolution [micron]	1.0	1.0	1.0	1.0
Length Scale Factor [mm/Volt ±2%]	0.5	0.5	1.0	1.0
Length Signal Linearity ¹ [%]	99.9	99.9	99.9	99.9
Length Step Response Time ² [millisecond]	1.3	1.3	2.0	2.0
Sinusoidal Frequency Response ³ [Hz]	530	530	300	300
Force Specifications				
Maximum Force [N]	0.5	1.0	5.0	10.0
Force Signal Resolution [mN]	0.3	0.6	1.0	2.0
Force Scale Factor [mN/Volt ±2%]	50	100	500	1,000
Force Signal Linearity ⁴ [%]	99.8	99.8	99.8	99.8
Force Step Response Time ⁵ [millisecond]	1.3	1.3	2.0	2.0
System Friction ⁶ [mN]	0.8	0.8	3.0	3.0
General Specifications				
Power Required	100, 120, 220, 240 VAC, 50/60 Hz. Available			
Power Consumption [W]	120	150	180	300
Controller Weight [kg]	8	8	8	8
Motor Weight [kg]	0.32	0.32	1	1
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