

Aeropro A240 Weight and Balance Calculator
A240 s/n 51817 -- 912ULS s/n 9569743 -- N815S

	kgs	lbs
aircraft original empty weight	294.40	649.03
	millimeters	inches
original empty CG of aircraft	278.29	10.96

	weight lbs	Arm inches	Moment
original empty weight & CG	649.03	10.96	7111.01
equipment list: ASI, MGL altimeter/VSI, EIS, compass, fuel pressure gauge, and ELT345 s/n 267-06530 hex code ADCC4 06608 0042D			

<i>standard equipment installed in U.S.:</i>	weight lbs	Arm inches	Moment
panel: ATR833 radio s/n 90064217	1.1	-8.75	-9.625
ATR833-PM1000II wiring harness 1# 6oz	1.4	17.3	24.22
panel: TRT800H transponder s/n 30971617	1.1	-8.75	-9.625
panel: PM1000II intercom 9 oz s/n K17085	0.6	-8	-4.8
<i>optional equipment installed in U.S.:</i>			
AvMap Ultra EFIS s/n 7110583	1	-8.75	-8.75
iPad Pro 10.5 mount w/dual power socket	0.4	-5.75	-2.3
uAvionix EchoUAT system with SkyFYX-EXT EchoUAT s/n 10001331	0.4	22	8.8
<i>added equipment subtotals.....</i>	6		-2.08
<i>empty aircraft as delivered totals.....</i>	655.03	10.85	7108.93

conclusion: weight in pounds	655.03
conclusion: arm in inches (CG)	10.85

permitted range:

max. CG forward (inches)	10.2
max. CG rearward (inches)	16.4
max. gross weight (lbs)	1235
available useful load	579.97

AIRCRAFT LOADING SPREADSHEET:

	weight lbs	Arm inches	Moment
fuel lbs (6 lb/gallon)		17.3	0
occupant: pilot		17.3	0
occupant: copilot or passenger		17.3	0
baggage forward area		40	0
baggage rear area		54	0
<i>subtotal...</i>	0.00		0.00
<i>add empty aircraft as delivered totals...</i>	655.03		7108.93
<i>loaded aircraft totals...</i>	655.03	10.85	7108.93

SUMMARY: LOADED AIRCRAFT

conclusion: loaded weight (lbs)	655.03
conclusion: CG - arm (inches)	10.85 (moment/weight = CG)

permitted range:

max. forward CG (inches)	10.2
max. rearward CG (inches)	16.4
max. allowed gross weight (lbs)	1235