

WEIGHT & BALANCE
ASK-21 S/N: 21861 N621CG

Date of Weighing: September 10, 2009 (Schleicher Factory)
April 2015 Installed Flarm View (2) and PowerFlarm Brick (+1.0 lb at +12.0 in)

Installed Equipment

Front Cockpit

Rear Cockpit

Winter Airspeed Indicator	United Altimeter
United Altimeter	Borgelt Variometer Repeater
Airpath Compass	Boom Mike
Borgelt Variometer B400	Radio Speaker & Vario Audio
Winter Variometer	(note: Instrument panel weights
Becker Transceiver AR 4201	do not exceed the 8.8 lbs front panel weight
Boom Mike	and the 5 lbs rear panel weight allowed for
Becker Transponder ATC 4401-1-175	by the factory weight and balance.)
ACK Altitude Encoder A-30	
Winter Airspeed Indicator	
Flarm View	Flarm View & PowerFlarm Brick (rear shelf)

Datum: Wing Leading Edge 5 cm to Root Edge

Attitude of Sailplane For Weighing: Slope of top of rear fuselage at 1000:52

Location of Main Gear: 25.55 inches aft of Datum

Distance Between Main Gear & Tail Wheel: 181.06 inches

Pilot Locations: Front Seat: -46.6 to -49.2 inches fwd of Datum **Rear Seat:** -3.2 inches fwd of Datum

Weighing Data: **Weight on Main Gear:** 810 pounds **Weight on Tail Gear:** 22 pounds

Empty Weight: 833 pounds **Empty Weight CG:** 30.33 inches aft of Datum

Additional Equipment:	<u>Item</u>	<u>Weight</u>	<u>Moment Arm</u>
	Battery	5 pounds	+7.9 inches aft of Datum

Final Empty Weight: 838 pounds **Final Empty Weight CG:** 30.19 inches aft of Datum

Flight Manual Limits

Inflight CG Limits: 9.21 inches to 18.46 inches aft of Datum
Max Gross Weight: 1320 pounds
Useful Load: 482 pounds
Baggage Location: +7.9 inches aft of Datum

Notes for In-flight CG

CG will be on the aft CG limit with a minimum forward cockpit weight (solo) of 154 pounds.

CG will be aft of the forward CG limit if the max seat (front or rear) weight of 242 pounds and the maximum gross weight of 1320 pounds are observed.

Aircraft Weighed by: Schleicher Factory

CG Calculations by: Ron Ridenour

Weight & Balance approved by: _____ Certificate Number: _____

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