



PS-28 Cruiser	Q-O-04AM	CENTRAL WING SECTION S/N:	489
Output control	Weight & Balance record	AIRCRAFT S/N:	C0489

AIRCRAFT SPECIFICATION:
 AIRCRAFT TYPE: **PS-28 Cruiser**
 AIRCRAFT S/N: **C0489**
 CENTRAL WING SECTION S/N: **489**

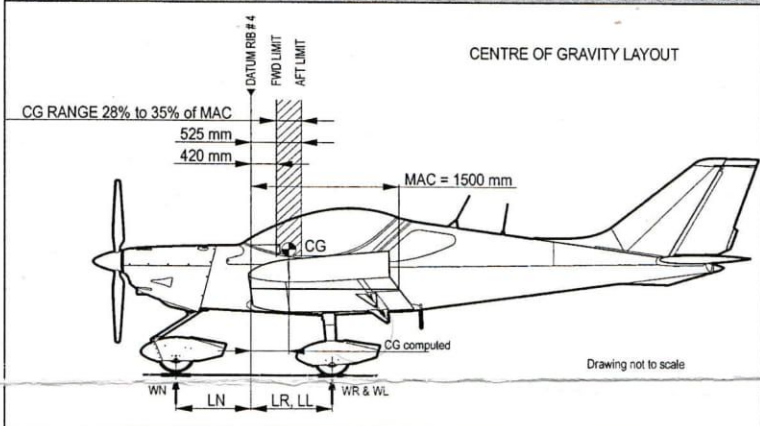
INSTALLED EQUIPMENT:
 Rotax 912 S2 with airbox and thermostats
 Woodcomp KLASSIC 170/3/R three-blade ground adjustable propeller
 Dynon D100 EFIS, Dynon D120 EMS
 Winter backup ASI, UMA backup ALT, CM-24L magnetic compass
 Garmin SL30 transceiver, PS Engineering PM3000 intercom
 Garmin GTX328 transponder, King AK451 ELT
 Dynon HS34 HSI expansion module
 Airgizmos, Garmin 695 GPS, Antennas
 G-205 trim control and PTT on the control sticks, Trims and flaps electrically actuated
 Landing light in cowl, Cockpit light, Instrument lighting
 AVE-WPST wing tip LED strobe/nav lights
 Adjustable pedals, Dual hydraulic brakes, Parking brake
 Cabin heating, Carburetor preheating, Wheel fairings tricycle
 Upholstery, Paint, Sunshade, Arm supports
 BRS LSA softpack parachute

NOTE: Data in blue boxes can be changed.

MEASURING THE AIRCRAFT:
 Inflate the tires, drain the fuel from wing tanks.
 Level the upper fuselage longeron with a spirit level.
 DATUM is on leading edge at RIB # 4.
 Measure wheel axle location from DATUM.
 Positive arm is behind the DATUM.

LIQUIDS SPECIFICATION:

FUEL WEIGHT	0.72 KG/LITER
VOLUME (MAX)	114.00 LITRES
OIL WEIGHT	0.90 KG/LITER
VOLUME (MAX)	3.80 LITRES
COOLANT WEIGHT	1.03 KG/LITER
VOLUME (MAX)	2.50 LITRES



OPERATING C.G. LIMITS :

	MM	% MAC
MAC :	1,500.0	100.0%
FORWARD CG :	420.0	28.0%
REARWARD CG :	525.0	35.0%
CG RANGE :	105.0	7.0%

EMPTY WEIGHT C.G. LIMITS :

	MM	% MAC
MAC :	1,500.0	100.0%
FORWARD CG :	427.5	28.5%
REARWARD CG :	442.5	29.5%
CG RANGE :	15.0	1.0%

AIRCRAFT EMPTY WEIGHT CENTER OF GRAVITY

POSITION OF:

	ARM
	MM
RIGHT MAIN WHEEL (LR)	793
LEFT MAIN WHEEL (LL)	783
NOSE WHEEL (LN)	-716
DISTANCE BETWEEN NOSE AND MAIN WHEELS	1,504

NOTE: NEGATIVE ARM (-)

WEIGHING POINT:

	SCALE READING	TARE	NET WEIGHT
	KG		
RIGHT WHEEL (WR)	151.3	0.0	151.3
LEFT WHEEL (WL)	152.2	0.0	152.2
NOSE WHEEL (WN)	95.5	0.0	95.5

Note:

EMPTY WEIGHT: *NOTE: EMPTY WEIGHT IS INCLUDING OIL, COOLANT, HYDRAULIC FLUID AND UNUSUAL FUEL* **399.0** KG

MAXIMUM TAKEOFF WEIGHT (CS-LSA / ASTM LSA CATEGORY): **600.0** KG

MAXIMUM USEFUL WEIGHT: *NOTE: MAX. USEFUL WEIGHT IS INCLUDING PILOT, PASSENGER, BAGGAGE AND FUEL* **201.0** KG

AIRCRAFT EMPTY WEIGHT C.G. CALCULATION:

MOMENT (KG MM) = WEIGHT (KG) x ARM (MM)

	WEIGHT	ARM	MOMENT
	KG	MM	KG MM
RIGHT MAIN WHEEL	151.3	793	119,980.9
LEFT MAIN WHEEL	152.2	783	119,172.6
NOSE WHEEL	95.5	-716	-68,378.0
TOTAL:	399.0		170,775.5 KG MM

AIRCRAFT C.G. = $\frac{\text{TOTAL MOMENT}}{\text{TOTAL WEIGHT}}$ (MM) x $\frac{100}{\text{MAC}}$ (%)

RESULT OF AIRCRAFT EMPTY WEIGHT C.G.: **428.0** MM
28.5% of MAC

DATE : 2013-08-20

ENTITLED PERSON SIGNATURE :

(Signature)
 Pavel Lukeš
 CZECH SPORT AIRCRAFT QO 08