

A-10 **Revision 20** NZSkydive Ltd **CT/4** CT/4A CT/4B CT/4E **29 November 2021**

TYPE CERTIFICATE DATA SHEET No A-10

This data sheet, which is part of Type Certificate No A-10, prescribes conditions and limitations under which the product for which the Type Certificate was issued meets the airworthiness requirements of the New Zealand Civil Aviation Rules.

Type Certificate Holder:	NZSkydive Lto Trading as Pao 333 Airport Ro Hamilton 3282 New Zealand	cific Aerospace ad			
Type Certificate Holder Record	 Transferred from Pacific Aerospace Ltd to NZSkydive Ltd on 29/11/21 Transferred from Pacific Aerospace Corporation Ltd to Pacific Aerospace Ltd on 12/12/06. 				
<u>I - Model CT/4 Airtrainer (A</u> Note 6)	crobatic and Norn	nal Categories). A	<u>approv</u>	ed 29/	/ <u>11/72 (</u> See
Engine	S/N 001 -Contine S/N 002 -Contine	ental IO-360-D or ental IO-360-D.	IO-360	-H. (S	ee Note 9)
Fuel	100/130 minimur	n grade aviation g	asoline	•	
Engine Limits	For all operations	s : 2800 rpm full tl	nrottle ((210 h	p).
Propeller & Limits	Hartzell BHC-C2YF-1B/7663 A-0. Diameter 76 in max., 72 in min. Static rpm at full throttle 2800. Governor model Woodward F210452.				
Airspeed Limits (CAS)	Never Exceed Design Cruising Manoeuvering Half flap Full flap	207 kt 147 kt 146 kt 100 kt 85 kt			
C.G. Range	Fwd Limit Aft Limit	30.2 in AOD 33.8 in AOD Ao 36.0 in AOD No)All)We)	ights
Empty Weight C.G. Range	None.				
Maximum Weight	S/N 001 – 2400 1 S/N 002 - 2350 1				
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Number of seats	Three (two at +38.5in and one at +71.5in).		
Fuel Capacity	45 Imp. gallons (+30.0 in).		
Oil Capacity	8.3 Imp. quarts (-27.5 in).		
Control Surface Movements	Flapsdown 30° Aileronsdown 10.5° up 16.5° Elevatordown 15° up 25° Rudderright and left 30°		
Serial Numbers Eligible	001 and 002 (See Note 7)		
Drawing List	001 ; NZAIL drawing 07-01010-1 002 ; NZAIL drawing 07-01010-2		
Equipment	The basic required equipment as prescribed in the applicable airworthiness regulations (see certification basis) must be installed in the aircraft for certification. In addition, a system providing audible stall warning must be installed.		
Certification Basis	Part 23 of the Federal Aviation Regulations effective 1 February 1965 and amended by 23-1 to 23-10 inclusive.		
	Application for certification dated 26/7/71.		
Flight Manual	N.Z. CAA Approved Flight Manual AIR 2422.		
Datum	Station 50.0 in - Plate with etched line on fuselage side.		
Levelling Means	Lateral - jig-located nut-plates at station 153.0 in. Longitudinal - jig-located nut-plates at stations 110.0 i and 125.0 in.		

II - Model CT/4A Airtrainer (Acrobatic and Normal Categories). Approved 18/2/74 (See Note 6)

(See Note 6)	
Engine	Continental IO-360-H.
Fuel	100/130 minimum grade aviation gasoline.
Engine Limits	For all operations : 2800 rpm full throttle (210 hp)
Propeller & Limits	Hartzell BHC-C2YF-1BF/F7663 A-0. Diameter 76 in max., 72 in min. Static rpm at full throttle 2800. Governor model Woodward B210680, F210452 or F210992.
Airspeed Limits (CAS)	Never Exceed207 ktDesign Cruising147 ktManoeuvering146 ktHalf flap100 ktFull flap85 kt

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C.G. Range	Fwd Limit Aft Limit	30.2 in AOD)All33.8 in AOD Acrobatic)Weights36.0 in AOD Normal)	
Empty Weight C.G. Range	None.		
Maximum Weight	2400 lb.		
Number of seats	Two (+40.7 in). See Flight Manual supplements for optional seating.		
Fuel Capacity	45 Imp. gallons	(+30.0 in).	
Oil Capacity	8.3 Imp. quarts ((-27.5 in).	
Control Surface Movements	Flaps Ailerons Elevator Rudder	$\begin{array}{ll} \operatorname{down} 30^{\circ} \\ \operatorname{down} 10.5^{\circ} & \operatorname{up} 16.5^{\circ} \\ \operatorname{down} 15^{\circ} & \operatorname{up} 25^{\circ} \\ \operatorname{right} \operatorname{and} \operatorname{left} 30^{\circ} \end{array}$	
Serial Numbers Eligible	003 to 077 (See Note 7)		
Drawing List	003 to 004 ; NZAIL drawing 07-01010-3 005 to 026 ; NZAIL drawing 07-01010-4 027 to 063 ; NZAIL drawing 07-01010-5 064 to 077 ; NZAIL drawing 07-01010-7		
Equipment	The basic required equipment as prescribed in the applicable airworthiness regulations (see certification basis) must be installed in the aircraft for certification. In addition, a system providing audible stall warning must be installed.		
Certification Basis	Part 23 of the Federal Aviation Regulations effective 1 February 1965 and amended by 23-1 to 23-10 inclusive.		
	Application for certification dated 26/7/71.		
Flight Manual	N.Z. CAA Approved Flight Manual AIR 2422.		
Datum	Station 50.0 in - Plate with etched line on fuselage side.		
Levelling Means	Longitudinal -	jig-located nut-plates at station 153.0 in. jig-located nut-plates at stations 110.0 in nd 125.0 in.	

III - Model CT/4B Airtraine	r (Acrobatic and Normal Categories). Approved 3/4/91.
(See Note 6)	
Engine	Continental IO-360-HB. (See Note 8)
Fuel	100/130 minimum grade aviation gasoline.
Engine Limits	For all operations : 2800 rpm full throttle (210 hp)

Propeller & Limits	Hartzell BHC-C2YF-1BF/F7663 A-0. Diameter 76 in max., 72 in min. Static rpm at full throttle 2800. Governor model Woodward B210680, F210452 or F210992.		
Airspeed Limits (CAS) (See Notes 10 and 11)	Never Exceed207 ktDesign Cruising147 ktManoeuvering146 ktHalf flap100 ktFull flap85 kt		
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C.G. Range (See Note 11)	Fwd Limit (Normal and Acrobatic)+0.767m (30.2 in)966kg 960kg+0.813m (32.0 in)1090kgStraight line variation between points given.		
	Aft Limit (Normal) +0.914m (36.0 in))All (Acrobatic) +0.859m (33.8 in))Weights		
Empty Weight C.G. Range	None.		
Maximum Weight	1090 kg (2400 lb). (See Note 11)		
Number of seats	Two (+1.034m (40.7 in)). See Flight Manual supplements for optional seating.		
Fuel Capacity	207 litres (+0.762m) (45.5 Imp. gallons (+30.0 in)).		
Oil Capacity	11.4 litres (-0.699m) (10 Imp. quarts (-27.5 in)).		
Control Surface Movements	Flapsdown 30°Aileronsdown 10.5°Up 16.5°Elevatordown 15°Up 25°Rudderright and left 30°		
Serial Numbers Eligible	078 – 096 (See Note 4) CT4-097 and up. See also Note 14.		
Drawing List	S/N 078 - 096PAC drawing 07-01010-10S/N CT4-097 and upPAC drawing 07-01010-9		
Equipment	The basic required equipment as prescribed in the applicable airworthiness regulations (see certification basis) must be installed in the aircraft for certification. In addition, a system providing audible stall warning must be installed.		
Certification Basis	Part 23 of the Federal Aviation Regulations effective 1 February 1965 and amended by 23-1 to 23-10 inclusive.		
	Application for certification dated 26/7/71.		
Flight Manual	N.Z. CAA Approved Flight Manual AIR 2408.		
Datum	Station 50.0 in - Plate with etched line on fuselage side.		

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Levelling Means	Lateral Longitudinal	- jig-located nut-plates at - jig-located nut-plates at and 125.0 in.	
IV - Model CT/4E Airtrainer (A	Acrobatic Cate	gory). Approved 17/7/92.	<u>. (</u> See Note 6)
Engine	Textron Lyco	ming AEIO-540-L1B5.	
Fuel	100 or 100LL	octane aviation gasoline.	
Engine Limits	For all operation	ions : 2700 rpm full throttl	e (300 hp)
Propeller and Limits (See Note 13)	Hartzell HC-C 75 in min. Go	C3YR-4BF/FC7663-2. Dia vernor V4-3.	meter 76 in max.,
	Pitch limits at	30" station: 13.4° Low	$32 \pm 1^{\circ}$ High
Airspeed Limits (CAS)	V _A (Manoeuv V _{FE} (Maximu	ruising speed)	207 kt 147 kt 146 kt 100 kt
(See Note 12)		configuration	85 kt
C.G. Range	Fwd Limit Straight line v Aft Limit	+0.737m (29.0 in). +0.787m (31.0 in). variation between points gi +0.864m (34.0 in).	998 kg 1180 kg ven. All weights
Empty Weight C.G. Range	None.		
Maximum Weight	1180 kg (2600) lb).	
Number of seats	Two (+1.110r	n (43.7 in)).	
Fuel Capacity	207 litres (+0.	.775m) (45.5 Imp. gallons	(+30.5 in)).
Oil Capacity	15.2 litres (-0.	.686m) (13.4 Imp. quarts (-27.0 in)).

Control Surface Movements	Flaps Ailerons Elevator Rudder	$\begin{array}{ccc} \operatorname{down} 30^{\circ} \\ \operatorname{down} 10.5^{\circ} & \operatorname{Up} 16.5^{\circ} \\ \operatorname{down} 15^{\circ} & \operatorname{Up} 25^{\circ} \\ \operatorname{right} \operatorname{and} \operatorname{left} 30^{\circ} \end{array}$
Serial Numbers Eligible	065, 200 and u	р.
Drawing List	S/N 065 S/N 200 and up	PAC drawing 10-00001-1 PAC drawing 10-00001-2

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Equipment	The basic required equipment as prescribed in the applicable airworthiness regulations (see certification basis) must be installed in the aircraft for certification. In addition, a system providing audible stall warning must be installed.		
Certification Basis	Part 23 of the Federal Aviation Regulations effective 1 February 1965 and amended by 23-1 to 23-36 inclusive, with an exemption from the requirements of 23.562.		
	An equivalent safety finding was made for 23.905(d). See ATD letter reference 61/199/2 dated 17/7/92.		
	An equivalent safety finding was made for 23.1305(a) and 23.1337(b). See CAA finding reference A540 P07 dated 17/8/98.		
	Application for certification dated 4/7/91.		
Flight Manual	CAA Approved Flight Manual AIR 2632.		
Datum	Station 47.0 in - Plate with etched line on fuselage side		
Levelling Means	Lateral - jig-located nut-plates at station 153.0 in. - jig-located nut-plates at stations 110.0 in and 125.0 in.		

NOTES PERTINENT TO ALL MODELS

NOTE 1	Current weight and balance report including list of equipment included in certified empty weight, and loading instructions when necessary must be provided for each aircraft at the time of original certification.
NOTE 2	Placards and instrument markings must be displayed in accordance with the applicable Flight Manual.
NOTE 3	Information with respect to service life limited parts is contained in the applicable Maintenance Manual under Section 05-10-1.2 Airworthiness Limitations.
	The following components are life limited and must be replaced or inspected as indicated:

Model	Component	Part Number	Service Life (flight hours)
CT/4 CT/4A S/N 003 - 004 CT/4A S/N 005 - 026 CT/4A S/N 027 - 063	Wing	07-10101-1/2 07-10101-3/4 07-10101-5/6 07-10101-6/7	10,000 (See Note 5) 14,000 14,000 14,000 (See Note 4
CT/4A S/N 064 - 077 CT/4B S/N 078 - 096 CT/4B S/N CT4-097 & up CT/4E S/N 065 CT/4E S/N 200 & up		07-10101-12/13 07-10101-8/9 07-10101-14/15 10-04015-1/2 10-04016-1/2	and 14) 14,000 14,000 (See Note 4) 14,000 14,000 14,000
All	Wing centre splice (all components)	See Dwg No 07- 10100	11,000 (Must be dismantled and inspected at 8,000 hours)

These limitations may not be increased without CAA approval.

NOTE 4 CT/4B aircraft serial numbers 027 – 063 and 078 – 096 are eligible for certification under this type certificate when they have been inspected and certified for conformity against drawing 07-01010-10 by the type certificate holder. The service life remaining shall be assessed by calculating equivalent flight hours using the following formula:

Equivalent flight hours = 1.4M + C Where M = RNZAF FEH (fatigue equivalent hour) (See NZAP 6212.005-38) C = hours of civil flight time

- NOTE 5 Contact the type certificate holder when this figure is reached.
- NOTE 6 The Acrobatic and Normal categories stated are those of FAR 23. When certificated in New Zealand in accordance with CAR Part 21 the aircraft are eligible for an airworthiness certificate in the Standard category.

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NOTE 7	CT/4 and CT/4A aircraft are only eligible for certification under this Type Certificate when modified in accordance with Service Bulletin PACSB/CT/119.		
NOTE 8	An alternative engine, Continental model IO-360-H3, modified in accordance with CAA approved modification AMO 97, may be installed in accordance with CAA approved modification PAC/CT/0253.		
NOTE 9	An alternative engine, Continental model IO-360-HB, may be installed in accordance with CAA approved modification PAC/CT/0169.		
NOTE 10	When Modification PAC/CT/0290 is embodied in CT/4B models the Maximum Flaps Extended Speed V_{FE} (landing configuration) is increased to 91 KIAS.		
NOTE 11	When Modification PAC/CT/0312 is embodied in CT/4B models the Maximum take-off weight in the Normal category is increased to 1180 kg (2600 lbs). The following limitations are applicable:		
	Take-of	vering speed) m flaps extended f configuration g configuration	Acrobatic Flight Normal flight 146 KCAS 121 KCAS l speed) 100 KCAS 100 KCAS 91 KCAS 91 KCAS
	Maximum Weight		1090 kg (2400 lbs) Acrobatic Flight 1180 kg (2600 lbs) Normal Flight
	C.G. Range	Fwd Limit	+0.767m (30.2 in) 966 kg +0.813m (32.0 in) 1090 kg +0.864m (34.0 in) 1180 kg
		Aft Limit Straight line va	+0.884m (34.8 in) 1180 kg +0.914m (36.0 in) 1090 kg triation between points given.
NOTE 12	When Modification PAC/CT/0259 is embodied in CT/4E models the Maximum Flaps Extended Speed V_{FE} (landing configuration) is increased to 91 KIAS.		
NOTE 13	The MTV-9-B-C/C193-58 propeller may be fitted to the CT/4E in accordance with Modification PAC/CT/0304.		
NOTE 14	CT/4A aircraft serial numbers $027 - 063$ may be converted to CT/4B aircraft in accordance with Modification PAC/CT/0412.		

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