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EASA.A.185

Description:	A.185 Tecnam P2006T
Language:	English
TCDS:	EASA.A.185
Product type:	Aircraft (CS-25, CS-22, CS-23, CS-VLA, CS-LSA)
Manufacturer/TC Holder:	TECNAM Costruzioni Aeronautiche





European Aviation Safety Agency

EASA

TYPE-CERTIFICATE DATA SHEET

EASA.A.185

P2006T

Type Certificate Holder

Costruzioni Aeronautiche TECNAM S.r.l.

Via Tasso, 478
80127 Napoli
ITALIA

Issue 4: 21 November 2013

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SECTION A: P2006T

A.I. General

Data Sheet No.: EASA A.185	Issue: 04	Date: 21 November 2013
1. a) Type:	P2006T	
c) Model:	-----	
b) Variant:	-----	
2. Airworthiness Category:	CS-23 Normal Category	
3. Type Certificate Holder:	Costruzioni Aeronautiche TECNAM S.r.l. Via Tasso, 478 80127 Napoli ITALIA	
4. Manufacturer:	Costruzioni Aeronautiche TECNAM S.r.l. Via Tasso, 478 80127 Napoli ITALIA	
5. Certification Application Date:	12 December 2005	
6. EASA Type Certification Date:	5 June 2009	

A.II. EASA Certification Basis

1. Reference Date for determining the applicable requirements:	12 December 2006
2. Reserved	
3. Reserved	
4. Certification Basis:	As defined in CRI A-01, latest issue See Note 2
5. Airworthiness Requirements:	EASA CS-23 (Decision no. 2003/14/RM of the Executive Director of the Agency of 14 November 2003)
6. Requirements elected to comply:	None
7. EASA Special Conditions:	CRI F-01, HIRF Protection See Note 2
8. Exemptions:	None
9. Equivalent Safety Findings:	CS23.807(e) Ditching Emergency Exits (CRI D-01); CS23.783(b), Main door (CRI D-02); CS23.865, Fire protection of flight controls, engine mounts and other flight structure (CRI D-03); CS23.1061(b), CS23.1063, Liquid Cooling – Coolant tank (CRI E-01).

10. EASA Environmental Standards: ICAO, Annex 16, Volume I, 4th Edition, July 2005;
EASA CS-36, Decision No. 2003/4/RM, 17 October 2003

A.III. Technical Characteristics and Operational Limitations

1. Type Design Definition: C.A. Tecnam Aircraft P2006T report "Type design definition" No.
2006/004 1st ed. Rev 2 dated May 25th 2009.
2. Description: Twin engine, four-seated cantilever high wing airplane, aluminium construction, retractable tricycle landing gear.
3. Equipment: Equipment list, AFM, Doc. 2006/044, Section 6,
4. Dimensions:
- | | | |
|-----------|----------------------|--------------|
| Span | 11.4 m | (37.4 ft) |
| Length | 8.7 m | (28.5 ft) |
| Height | 2.85 m | (9.35 ft) |
| Wing Area | 14.76 m ² | (158.9 sqft) |
5. Engines: No.2 Bombardier-Rotax GmbH 912 S3
Certification Basis: FAR 33 Amdt. 15 plus FAA
NPRM Doc. # 24922, Notice no. 92-14
EASA TCDS n° E.121
dated 1 April 2008
- 5.1 Engine Limits:
- | | |
|--|-------------|
| Max rotational speed (5 min) | 5800 r.p.m. |
| Max continuous rotational speed (Engine shaft r.p.m) | 5500 r.p.m |
- Powerplant limits, AFM, Doc. 2006/044, Section 2,
6. Reserved
7. Propeller: No.2 MT Propeller MTV-21-A-C-F/CF178-05
Two blades, constant speed, variable pitch with feathering capability, wood construction.
Type Certificate No. LBA 32.130/086
Diameter : 1780 mm
8. Fluids:
- 8.1 Fuel:
- MOGAS (Min. RON 95/AKI 91)
 - EN 228 Super
 - EN 228 Super Plus
 - ASTM D4814
 - AVGAS 100LL (ASTM D910)
(see Rotax Operator's Manual OM-912)
- 8.2 Oil: Lubricant specifications and grade are detailed into the "Rotax Operator's Manual OM-912" and in its related documents.
- 8.3 Coolant: Water / Cooler Protection
For more details see AFM, 2006/044, Section 2

9. Fluid capacities:

9.1 Fuel:	Total:	200 liters	(52.8 US Gallon)
	Usable:	194.4 liters	(51.4 US Gallon)

9.2 Oil (each engine):	Maximum:	3.0 liters	(3.2 qts)
	Minimum:	2.0 liters	(2.1 qts)

10. Air Speeds:

Design Manoeuvring Speed V_A :	119 KIAS	(117 KCAS)
Flap Extended Speed V_{FE} :	93 KIAS	(92 KCAS) Landing
	119 KIAS	(117 KCAS) Take Off

Minimum Control Speed V_{MC}	62 KIAS	(62 KCAS)
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Maximum Landing Gear Operation Speed V_{LO} :	93 KIAS	(92 KCAS)
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Maximum Landing Gear Extended Speed V_{LE} :	93 KIAS	(92 KCAS)
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Maximum Structural Cruising Speed V_{NO} :	135 KIAS	(134 KCAS)
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Never Exceed Speed V_{NE} :	167 KIAS	(168 KCAS)
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The following values apply when EASA Major Change Approval n. 10037759 "Increment of the maximum take off weight (1230 Kg)" as per C.A. Tecnam MOD2006/015 is installed (Other Air Speeds remain unchanged):

Design Manoeuvring Speed V_A :	122 KIAS	(119 KCAS)
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Flap Extended Speed V_{FE} :	93 KIAS	(93 KCAS) Landing
	122 KIAS	(119 KCAS) Take Off

Maximum Structural Cruising Speed V_{NO} :	138 KIAS	(136 KCAS)
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Never Exceed Speed V_{NE} :	171 KIAS	(172 KCAS)
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The following values apply when EASA Major Change Approval n. 10041602 " V_{LE} and V_{LO} increment" as per C.A. Tecnam MOD2006/033 is installed (Other Air Speeds remain unchanged):

Maximum Landing Gear Operation Speed V_{LO} :	122 KIAS	(119 KCAS)
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Maximum Landing Gear Extended Speed V_{LE} :	122 KIAS	(119 KCAS)
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11. Reserved

12. Operations Capability: Day/Night-VFR, IFR
Flight into expected or actual icing conditions is prohibited
See Note 1
13. Maximum Weights: Take-off 1180 kg (2600 lb)
Zero Fuel 1145 kg (2524 lb)
Landing 1180 kg (2600 lb)
- The following values apply when EASA Major Change Approval n. 10037759 "Increment of the maximum take-off weight (1230 Kg)" as per C.A. Tecnam MOD2006/015 is installed:
- Take-off 1230 kg (2712 lb)
Zero Fuel 1195 kg (2635 lb)
Landing 1230 kg (2712 lb)
14. Centre of Gravity Range: Forward limit 0.221 m (16.5 % MAC) behind Datum
Rear limit: 0.415 m (31.0 % MAC) behind Datum
15. Datum: Wing leading edge (MAC = 1.339m)
16. Reserved
17. Levelling Means: Seat support trusses (see AFM, 2006/044, Sect.6 for the procedure)
18. Minimum Flight Crew: 1 (Pilot)
19. Maximum Passenger Seating Capacity: 3
20. Reserved
21. Baggage/Cargo Compartments: Max. allowable Load 80 kg
Location 1.215 m aft the datum
22. Wheels and Tyres: Nose Wheel Tyre Size 5.00-5
Main Wheel Tyre Size 6.00-6

A.IV. Operating and Service Instructions

1. Flight Manual:
C.A. Tecnam Aircraft P2006T report "Aircraft Flight Manual" No. 2006/044 1st ed. Rev 0 dated May 25th 2009 and any EASA approved edition and revision.
2. Airworthiness Limitations:
C.A. Tecnam Aircraft P2006T report "Airworthiness Limitation and instruction for continued airworthiness" No. 2006/032 1st ed. Rev 2 dated May 25th 2009 and any EASA approved edition and revision.
3. Airplane Maintenance Manual (AMM):
C.A. Tecnam Aircraft P2006T report "Aircraft Maintenance Manual" No. 2006/045 current issue
4. Illustrated Parts Catalogue:
C.A. Tecnam Aircraft P2006T report "Airplane Illustrated Parts Catalogue" No. 2006/046 current issue
5. Service Information and Service Bulletins:
Refer to Service Bulletin No. SB 000 - CS "Service Bulletins record", current issue

A.V. Notes:

1. Airplane has been certified to operate VFR Day, VFR Night and IFR Night. Basic aircraft equipment configuration allows VFR Day operation. Additional equipment configuration are available at customer choice (see "Aircraft Flight Manual" Sect.6 for further information).
2. When major change, "Tecnam MOD2006/002" (Easa approval 10029633), is installed for Optional Equipment Garmin G950, the corresponding major modification to CRI A-01 must be considered together with special condition detailed in CRI B-52 "Human factor in Integrated Avionic Systems".

ADMINISTRATIVE SECTION

I. Acronyms

II. Type Certificate Holder Record

TC Holder	Period
Costruzioni Aeronautiche TECNAM S.r.l. Via Tasso, 478 80127 Napoli ITALIA	effective

III. Change Record

Issue	Date	Changes
Issue 01	5 June 2009	Initial issue
Issue 02	30 March 2012	Update to include changes MOD2006/002" (Easa approval 10029633) and MOD2006/015" (Easa approval 10037759)
Issue 03	20 December 2012	Update to include changes MOD2006/033" (Easa approval 10041602)
Issue 04	08 November 2013	Amend fuel specification