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# TYPE-CERTIFICATE DATA SHEET

**EASA.A.185**

**P2006T**

**Type Certificate Holder**  
**Costruzioni Aeronautiche TECNAM S.p.A.**

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**SECTION A: P2006T**

**A.I. General**

|                                   |                       |
|-----------------------------------|-----------------------|
| 1. Type/ Model/ Variant           |                       |
| 1.1 Type                          | P2006T                |
| 1.2 Model                         | P2006T                |
| 2. Airworthiness Category         | CS-23 Normal Category |
| 3. Manufacturers                  | See Note 5            |
| 4. EASA Type Certification        |                       |
| Application Date                  | 12 December 2005      |
| 5. State of Design Authority      | N/A                   |
| 6. State of Design Authority Type |                       |
| Certificate Date                  | N/A                   |
| 7. EASA Type Certification Date   | 05 June 2009          |

**A.II. EASA Certification Basis**

|   |  |
|---|--|
| 1. Reference Date for determining the applicable requirements | 12 December 2006   |
| 2. Airworthiness Requirements                                 | EASA CS-23 amdt. 0 dated 14 Nov 2003.  |
| 3. Special Conditions   | HIRF protection (project reference CRI F-01), see Appendix A<br>Human Factors - Integrated Avionic System (project reference CRI B-52), see Appendix A and Note 2<br>Lithium battery installation (project reference CRI F 58); see Appendix A and Note 3        |
| 4. Exemptions   | None   |
| 5. (Reserved) Deviations                                      | None   |
| 6. Equivalent Safety Findings                                 | CS23.807(e) Ditching Emergency Exits (CRI D-01);<br>CS23.783(b), Main door (CRI D-02);<br>CS23.865, Fire protection of flight controls, engine mounts and other flight structure (CRI D-03);<br>CS23.1061(b), CS23.1063, Liquid Cooling Coolant tank (CRI E-01). |
| 7. Environmental Protection                                   | Refer to TCDSN EASA.A.185  |



### A.III. Technical Characteristics and Operational Limitations

|                           |   |                                   |
|---------------------------|---|-----------------------------------|
| 1. Type Design Definition | C.A. Tecnam Aircraft P2006T report "Type design definition" 2006/004 4th ed. and later revision                         |                                   |
| 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 <sup>2</sup> (158.9 sqft) |
| 5. Engine                 |   |                                   |
| 5.1. Model                | No.2 BRP-Rotax GmbH 912 S3  |                                   |
| 5.2 Type Certificate      | EASA TCDS n° E.121<br>dated 1 April 2008  |                                   |
| 5.3 Limitations           | Max rotational speed (5 min)  | 5800 r.p.m.                       |
|                           | Max continuous rotational speed<br>(Engine shaft rpm)   | 5500 r.p.m                        |
|                           | Powerplant limits, AFM, Doc. 2006/044, Section 2,   |                                   |
| 6. Load factors           |   |                                   |
| 6.1Basic                  |   |                                   |
|                           |   |                                   |
|                           |   |                                   |
|                           | Flap UP   | Flap DOWN                         |
|                           | Positive  | +3.8 g                            |
|                           | Negative  | +2.0 g                            |
|                           |   | 0.0 g                             |
| 7. Propeller              |   |                                   |
| 7.1 Model                 | No.2 MT Propeller MTV-21-A-C-F/CF178-05   |                                   |
| 7.2 Type Certificate      | Type Certificate No. LBA 32.130/086   |                                   |
| 7.3 Number of blades      | 2   |                                   |
| 7.4 Diameter              | 1780 mm   |                                   |
| 7.5 Sense of Rotation     | Clockwise (pilot's view)  |                                   |
| 8. Fluids                 |   |                                   |
| 8.1 Fuel                  | MOGAS (Min. RON 95/AKI 91)  |                                   |
|                           | ▪ EN 228 Super/Super Plus   |                                   |
|                           | ▪ ASTM D4814  |                                   |
|                           | ▪ MOGAS MG 95 (IS 2796:2008) ; See Note 4   |                                   |
|                           | AVGAS 100LL (ASTM D910)<br>(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<br>For more details, see AFM, 2006/044, Section 2   |                                   |



9. Fluid capacities

9.1 Fuel Total: 200 litres (52.8 US Gallon)

Usable: 194.4 litres (51.4 US Gallon)

9.2 Oil Maximum: 3.0 litres (3.2 qts)

Minimum: 2.5 litres (2.6 qts)

10. Air speeds

Design Maneuvering Speed  $V_A$ : 119 KIAS (117 KCAS)

Flap Extended Speed  $V_{FE}$ : 93 KIAS (92 KCAS) *LND*  
119 KIAS (117 KCAS) *TO*

Minimum Control Speed  $V_{MC}$ : 62 KIAS (62 KCAS)

Maximum Landing Gear

Operation speed  $V_{LO}$ : 93 KIAS (92 KCAS)

Maximum Landing Gear

Extended Speed  $V_{LE}$ : 93 KIAS (92 KCAS)

Maximum Structural

Cruising Speed  $V_{NO}$ : 135 KIAS (134 KCAS)

Never Exceed Speed  $V_{NE}$ : 167 KIAS (168 KCAS)

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 Maneuvering Speed  $V_A$ : 122 KIAS (119KCAS)

Flap Extended Speed  $V_{FE}$ : 93 KIAS (93 KCAS) *LND*  
122 KIAS (119 KCAS) *TO*

Maximum Structural

Cruising Speed  $V_{NO}$ : 138 KIAS (136 KCAS)

Never Exceed Speed  $V_{NE}$ : 171 KIAS (172 KCAS)

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)

Maximum Landing Gear

Extended Speed  $V_{LE}$ : 122 KIAS (119 KCAS)

11. Maximum Operating Altitude: 14,000 ft

12. Approved Operations Capability Day/Night-VFR, IFR  
Flight into expected or actual icing conditions is prohibited, see Note 1

13. Maximum Masses

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. Control surface deflections        | Stabilator: 15°±2° to pitch up / 4°±2° to pitch down               |                      |                           |
|  | Stabilator Trim Tab: 19 ±2° downward / 2°±2° upward                |                      |                           |
|  | Aileron: 20°±2° upward / 17°±2° downward                           |                      |                           |
|  | Rudder: 26°±2° left / 26°±2° right                                 |                      |                           |
|  | Flaps: 0° Fully Retracted /40°±2° Fully Extended                   |                      |                           |
| 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. Baggage/ Cargo Compartments        | Max. allowable Load  | 80 kg                |                           |
|  | Location   | 1.215m aft the datum |                           |
| 21. Wheels and Tyres                   | Nose Wheel Tyre Size   | 5.00-5               |                           |
|  | Main Wheel Tyre Size   | 6.00-6               |                           |
| 22. Serial Numbers Eligible:           | See Note 5   |                      |                           |



#### **A.IV. Operating and Service Instructions**

- |                                |  |
|--------------------------------|--|
| 1. Flight Manual               | Doc. No 2006/044 "Aircraft Flight Manual" last issue.              |
| 2. Maintenance Manual          | Doc. No 2006/045 "Aircraft Maintenance Manual" last issue          |
| 3. Illustrated Parts Catalogue | Doc. No 2006/046 "Airplane Illustrated Parts Catalogue" last issue |
| 4. Instruments and aggregates: | Doc. No 2006/045 "Aircraft Maintenance Manual" last issue          |

#### **A.V. Operational Suitability Data (OSD)**

The Operational Suitability Data elements listed below are approved by the European Aviation Safety Agency under the EASA Type Certificate EASA.A.185 as per Commission Regulation (EU) 748/2012 as amended by Commission Regulation (EU) No 69/2014.

1. Master Minimum Equipment List (MMEL)  
The MMEL is defined in the P2006T GEN.MMEL, Report n°2006/384, Revision 0 or later approved revisions.





#### A.VI. 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".
3. When major change, "Tecnam MOD2006/212" (Easa approval 10058288), is installed for Optional Equipment "MD302 Alternative Stand-By Instrument", the corresponding major modification to CRI A-01 must be considered together with special condition detailed in CRI F-58 "Lithium battery installation".
4. When major change, Tecnam MOD 2006/284 (EASA approval 10061637), is installed
5. Serial Nos. Eligible:
  - S/N 001 and subsequent, manufactured by Costruzioni Aeronautiche TECNAM S.p.A. under certificate EASA production certificate IT.21G.0032
  - S/N CP-001 and subsequent, manufactured by LUSY Co. LTD under the Chinese Production Certificate PC0034A-DB, are not eligible for registration in the EU, Norway, Iceland, Switzerland and Lichtenstein.
  - Spare parts with a Chinese Authorized Release Certificate are not eligible for installation in aircraft registered in the EU, Norway, Iceland, Switzerland and Lichtenstein.
6. When engines with designation extended with suffix "-01" (e.g. Rotax 912 S2-01) are installed (as per MOD2006/227, EASA approval 10054149), the engine temperature measurement methods have been amended from CHT (cylinder head temperature) and CT (coolant temperature) to only CT (coolant temperature).



## **SECTION ADMINISTRATIVE**

### **I. Acronyms & Abbreviations**

AFM – Aircraft Flight Manual  
 AMM – Aircraft Maintenance Manual  
 CRI – Certification Review Item  
 CS – Certification Specification  
 EASA – European Aviation Safety Agency  
 ICAO – International Civil Aviation Organization  
 IPC – Illustrated Part Catalogue  
 KCAS – Knots Calibrated Air Speed  
 KOEL – Kind of Operations Equipment List  
 MAC – Mean Aerodynamic Chord  
 MTOW – Maximum Take-Off Weight  
 VFR – Visual Flight Rules

### **II. Type Certificate Holder Record**

| <b>TC Holder</b>  | <b>Period</b>                                |
|---|--|
| Costruzioni Aeronautiche TECNAM S.r.l.<br>Via Tasso, 478<br>80127 Napoli, ITALIA                      | From 5th June 2009 until 04th September 2019 |
| Costruzioni Aeronautiche TECNAM S.p.A.<br>Via Salvo D’Acquisto, 62<br>80042 Boscotrecase (NA), ITALIA | Effective                                    |

### **III. Change Record**

| <b>Issue</b> | <b>Date</b>      | <b>Changes</b>  | <b>TC Issue No. &amp; Date</b> |
|--------------|------------------|---|--------------------------------|
| Issue 01     | 5 June 2009      | Initial issue   | 05 June 2009                   |
| 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  |                                |
| Issue 05     | 22 December 2016 | Introduction of OSD MMEL  |                                |
| Issue 06     | 09 June 2017     | Update to include changes MOD2006/212” (Easa approval 10058288) and MOD 2006/284 (EASA approval 10061637) |                                |
| Issue 07     | 26 April 2018    | add new manufacturer, s/n eligible, latest edition of TDD and company registration change                 |                                |
| Issue 08     | 09 July 2018     | Correction of Chinese manufacturer’s name   |                                |



|          |                   |  |  |
|----------|-------------------|--|--|
| Issue 09 | 05 September 2019 | Company address update and improved description of Note 5.   |  |
| Issue 10 | 20 December 2019  | Updated Engine designation (field 5 in A.III); added note 6 in A.V ; removed “variant” and added “model” in A.I. |  |
| Issue 11 | 11 November 2020  | Corrected references in certification basis and removed typos (filed 3 and 7 in A.II); Added Appendix A.         |  |
| Issue 12 | 10 October 2022   | Fixed typos in minimum oil capacity value  |  |



## Appendix A

|  |  |
|--|--|
| Special Condition  | HIRF protection (Project reference CRI F-01) |
| The Policy Paper INT/POL/23/1 Issue dated 01.06.03 is considered a special condition for the P2006T HIRF protection. |  |

|   |   |
|---|---|
| Special Condition   | Human Factors in Integrated Avionics Systems (Project reference CRI B-52) |
| <p>a) The design of the integrated flight deck interface must adequately address the foreseeable performance, capability and limitations of the pilot.</p> <p>b) More specifically, the team must be satisfied with the following aspects of the flight deck interface design:</p> <ol style="list-style-type: none"> <li>i. Ease of operation including automation;</li> <li>ii. Effects of pilot errors in managing the aircraft systems, including the potential for error, the possible severity of the consequences, and the provision for recognition and recovery from error;</li> <li>iii. Workload during normal and abnormal operation; and</li> <li>iv. Adequacy of feedback, including clear and unambiguous: <ul style="list-style-type: none"> <li>• presentation of information;</li> <li>• representation of system condition by display of system status;</li> <li>• indication of failure cases, including aircraft status;</li> <li>• indication when pilot input is not accepted or followed by the system;</li> <li>• indication of prolonged or severe compensatory action by a system when such action could adversely affect aircraft safety.</li> <li>• Indication of reversionary modes and back-up status</li> </ul> </li> </ol> |   |

|  |   |
|--|---|
| Special Condition SC-F23.1353-02   | Lithium Battery Installation (Project reference CRI F-58) |
| <p>In lieu of the requirements of CS 23.1353(f), (g)(1) through (g)(3) the following applies:</p> <p>(a) Lithium batteries and battery installations must be designed and installed as follows:</p> <ol style="list-style-type: none"> <li>(1) Safe cell temperatures and pressures must be maintained during any probable charging or discharging condition, or during any failure of the charging or battery monitoring system not shown to be extremely remote. The Li battery installation must be designed to preclude explosion in the event of those failures.</li> <li>(2) Li batteries must be designed to preclude the occurrence of self-sustaining, uncontrolled increases in temperature or pressure.</li> <li>(3) No explosive or toxic gasses emitted by any Li battery in normal operation or as the result of any failure of the battery charging or monitoring system, or battery installation not shown to be extremely remote, may accumulate in hazardous quantities within the aeroplane.</li> <li>(4) Li battery installations must meet the requirements of CS 23.863(a) through (d).</li> <li>(5) No corrosive fluids or gasses that may escape from any Li battery may damage surrounding aeroplane structures or adjacent essential equipment.</li> </ol> |   |



- (6) Each Li battery installation must have provisions to prevent any hazardous effect on structure or essential systems that may be caused by the maximum amount of heat the battery can generate during a short circuit of the battery or of its individual cells.
- (7) Li battery installations must have a system to control the charging rate of the battery automatically so as to prevent battery overheating or overcharging, and,
  - (i) A battery temperature sensing and over-temperature warning system with a means for automatically disconnecting the battery from its charging source in the event of an over-temperature condition or,
  - (ii) A battery failure sensing and warning system with a means for automatically disconnecting the battery from its charging source in the event of battery failure.
- (8) Any Li battery installation whose function is required for safe operation of the aeroplane, must incorporate a monitoring and warning feature that will provide an indication to the appropriate flight crewmembers, whenever the capacity and SOC of the batteries have fallen below levels considered acceptable for dispatch of the aeroplane.
- (9) The Instructions for Continued Airworthiness must contain maintenance procedures for Lithium-ion batteries in spares storage to prevent the replacement of batteries whose function is required for safe operation of the aeroplane, with batteries that have experienced degraded charge retention ability or other damage due to prolonged storage at low SOC.
- (b) Compliance with the requirements of this Special Condition must be shown by test or, with the concurrence of EASA, by analysis.

-END-

