# TYPE-CERTIFICATE

# DATA SHEET

NO. EASA.A.637

**for**
P2012

**Type Certificate Holder**
Costruzioni Aeronautiche TECNAM SPA

Via S. D'acquisto, 62
80042 Boscotrecase (Na)
ITALIA

For models: P2012 Traveller

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# CONTENT

## SECTION A: P2012 TRAVELLER

### A.I. General

| | |
|---|---|
| 1. Type/ Model/ Variant | |
| 1.1 Type | P2012 |
| 1.2 Model | P2012 Traveller |
| 1.3 Variant | ----- |
| 2. Airworthiness Category | CS-23 Normal Category |
| 3. Manufacturer | Costruzioni Aeronautiche TECNAM SPA.<br>Via S. D'acquisto, 62<br>80042 Boscotrecase (NA)<br>ITALIA |
| 4. EASA Type Certification Application Date | 29 November 2015 |
| 6. State of Design Authority Type Certificate Date | N/A |
| 7. EASA Type Certification Date | 19 December 2018 |

### A.II. EASA Certification Basis

| | |
|---|---|
| 1. Reference Date for determining the applicable requirements | 19 December 2015 |
| 2. Airworthiness Requirements | EASA CS-23 amdt. 4 dated 15 July 2015. |
| 3. Special Conditions | SC-C23.div01 Human Factors –Integrated Avionic System (CRI B-52);<br>SC-F23.1353-02 Lithium battery installation (CRI F 58);<br>SC-CS-23.1305- Fuel low level annunciation means (CRI E-060); |
| 4. Exemptions | None |
| 5. (Reserved) Deviations | None |
| 6. Equivalent Safety Findings | None |
| 7. Requirements elected to comply: | CS-23 Amdt.4 § 783(d)(e)<br>CS-23 Amdt.4 § 803(a)<br>CS-23 Amdt.4 § 807(d)<br>CS-23 Amdt.4 § 811(b)<br>CS-23 Amdt.4 § 813(a)<br>CS-23 Amdt.4 § 853(d)<br>FAR 23.856 |
| 8. Environmental Protection | EASA CS-36, amdt.4, 12 January 2016 with reference to ICAO Annex 16, Volume I, 8th Edition, July 2017; |

## A.III. Technical Characteristics and Operational Limitations

| | | | |
|---|---|---|---|
| 1. Type Design Definition | C. A. Tecnam Aircraft P2012 report ''Type design definition'' 2012/003 1st ed. and later revision | | |
| 2. Description | Twin engine, 11 seats, high wing airplane, aluminium construction, fixed tricycle landing gear. | | |
| 3. Equipment | Equipment list, Doc. 2012/100 AFM Section 6 latest issue | | |
| 4. Dimensions: | Span | 14.0 m | (45.9 ft) |
| | Length | 11.8 m | (38.7 ft) |
| | Height | 4.4 m | (14.4 ft) |
| | Wing Area | 25.4 m² | (273 sqft) |
| 5. Engine | | | |
| 5.1. Model | Lycoming TEO-540-C1A (2x) | | |
| 5.2 Type Certificate | EASA TCDS n° IM.E.119<br>dated 12 December 2018 | | |
| 5.3 Limitations | Max continuous power 280 kW (375HP) at 2575 RPM<br>Other engine's limitations are listed in doc. No. 2012/100 "AFM", Section 2 | | |

6. Load factors

6.1Basic

| | Flap UP | Flap DOWN |
|---|---|---|
| Positive | +3.44 g | +2.0 g |
| Negative | -1.37g | 0.0 g |

| | | | |
|---|---|---|---|
| 7. Propeller | | | |
| 7.1 Model | MT Propeller MTV-14-B-C-F/CF195-30 (2x) | | |
| 7.2 Type Certificate | EASA TCDS n° P.017 | | |
| 7.3 Number of blades | 4 | | |
| 7.4 Diameter | 1950 mm | | |
| 7.5 Sense of Rotation | Clockwise (pilot's view) | | |
| 8. Fluids | | | |
| 8.1 Fuel | AVGAS 100LL (ASTM D910)<br>(see Lycoming SI-1070) | | |
| 8.2 Oil | Lubricant specifications and grade are detailed into the Lycoming SI-1014. | | |
| 9. Fluid capacities | | | |
| 9.1 Fuel | Total: | 750 litres | (198.1 US Gallon) |
| | Usable: | 728 litres | (192.3 US Gallon) |
| 9.2 Oil | Maximum oil capacity: | 11.3 litres | (12.0 qts) |
| | Minimum: | 3.8 litres | (4.0 qts) |

| | | |
|---|---|---|
| 10. Airspeeds | Design Maneuvering Speed $V_A$: | 141 KIAS (142 KCAS) |
| | Flap Extended Speed $V_{FE}$: | 119 KIAS (119 KCAS) *LND* |
| | | 124 KIAS (125 KCAS) *TO* |
| | Minimum Control Speed $V_{MC}$: | 70 KIAS (76 KCAS) *TO* |
| | | 67 KIAS (73 KCAS) *LND* |
| | Cruising Speed $V_{NO}$: | 176 KIAS (175 KCAS) |
| | Never Exceed Speed $V_{NE}$: | 223 KIAS (219 KCAS) |
| 11. Maximum Operating Altitude: | 13,000 ft | |
| 12. Approved Operations Capability | Day/Night-VFR, IFR | |
| | Flight into expected or actual icing conditions is allowed only if Ice Protection system (MOD2012/002) is installed. | |
| | Flight into expected or actual icing conditions is forbidden if stall warning devise (MOD2012/022) is installed | |
| 13. Maximum Masses | Take-off | 3600 kg (7936 lb) |
| | Landing | 3600 kg (7936 lb) |
| 14. Centre of Gravity Range | Forward limit:<br>0.367 m (18.0 % MAC) behind Datum up to 3000Kg<br>0.441 m (22.0 % MAC) behind Datum at MTOW<br>Straight line variation between indicated points. | |
| | Rear limit:<br>0.606 m (31.0 % MAC) behind Datum<br>MAC is 1.839m (72.4 in) | |
| 15. Datum | Vertical plane tangent to wing leading edge | |
| 16. Control surface deflections | Elevator: 23°±2° to pitch up / 13°±2° to pitch down<br>Elevator Trim Tab: -8 ±2° upward / -21°±2° downward<br>Aileron: 20°±2° upward / 15°±2° downward<br>Aileron Trim Tab: 30°±2° upward / 28°±2° downward<br>Rudder: 22°±2° left / 22°±2° right<br>Rudder Trim Tab: 6°±2° left / 6°±2° right<br>Flaps: 0° Fully Retracted/ 15°±2° TO /30°±2° Fully Extended | |
| 17. Levelling Means | Seat support tracks (see AFM, 2012/100, Sect.6 for the procedure) | |
| 18. Minimum Flight Crew | 1 (Pilot) | |
| 19. Maximum Passenger Seating Capacity | 9 | |

| | | |
|---|---|---|
| 20. Baggage/ Cargo Compartments | Max. allowable Loads: | |
| | Front | 103 kg (227 lb) |
| | Location | 3.316m (10,88 ft) fwd of datum |
| | Rear | 239Kg (527 lb) |
| | Location | 3.518m (11,54 ft) aft of datum |
| 21. Wheels and Tyres | Nose Wheel Tyre Size | 6.00-6 |
| | Main Wheel Tyre Size | 6.50-10 |
| 22. Serial Numbers Eligible: | S/N 002 and subsequent; | |

## A.IV. Operating and Service Instructions

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|---|---|
| 1. Flight Manual | Doc. No 2012/100 “Aircraft Flight Manual” Issue. 1 or latest issue. |
| 2. Maintenance Manual | Doc. No 2012/101 “Aircraft Maintenance Manual” Issue. 1 or latest issue |
| 3. Illustrated Parts Catalogue | Doc. No 2012/103 “Aircraft Illustrated Parts Catalogue” Issue. 1 or latest issue |
| 4. Instruments and aggregates: | Doc. No 2012/101 “Aircraft Maintenance Manual” Issue. 1 or latest issue |

## A.V. Notes

**Note 1**: As per EU 748/2012 Article 7a.2 applicable OSD requirements including MMEL must be fulfilled before the aircraft is operated by an EU operator.

**Note 2**: Fuel Combustion Heater change (MOD202/008) is approved as per EASA approval No. 10069738

**Note 3**: Until the completion of the Fatigue Test, the A/C is life limited as listed in Section 04 of the AMM.

**Note 4**: The following P2012 Optional Equipment are approved within Type of investigation process

P2012 Optional Equipment

| ID | System Description |
|---|---|
| **MOD2012/001** | Autopilot System |
| **MOD2012/002** | TKS FIKI system Ice protection system |
| **MOD2012/003** | Flight Management System keyboard |
| **MOD2012/004** | Weather radar |
| **MOD2012/005** | TAS unit |
| **MOD2012/006** | Satellite data-link |
| **MOD2012/007** | Iridium data-link |
| **MOD2012/009** | Air Conditioning |

## 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

| TC Holder | Period |
|---|---|
| Costruzioni Aeronautiche TECNAM S.P.A.<br>Via S. D'acquisto, 62<br>80062 Boscotrecase (NA), ITALY | Effective |

### III. Change Record

| Issue | Date | Changes | TC Issue No. & Date |
|---|---|---|---|
| 01 | 19 November 2018 | Initial Issue | EASA.A.637 |
| 02 | 29 April 2019 | MOD2012/008 Approval (EASA N. 10069738) and typos error removal | / |
| 03 | 29 May 2019 | MOD2012/022 Approval (EASA N. 10070098) and Company business address update | / |
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