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. Via S. D'acquisto, 62 80042 Boscotrecase (NA) 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); SC-F23.1353-02 Lithium battery installation (CRI F 58); 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) CS-23 Amdt.4 § 803(a) CS-23 Amdt.4 § 807(d) CS-23 Amdt.4 § 811(b) CS-23 Amdt.4 § 813(a) CS-23 Amdt.4 § 853(d) 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	No.2 Lycoming TEO-540-C1A		
5.2 Type Certificate	EASA TCDS n° IM.E.119 dated 12 December 2018		
5.3 Limitations	Max continuous power 280 kW (375HP) at 2575 RPM 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	No.2 MT Propeller MTV-14-B-C-F/CF195-30 ( ) (see note 1)		
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) (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 (Basic)	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)
10.1 Airspeeds (Optional) see note 5:		
	Design Maneuvering Speed V_A:	143 KIAS (143 KCAS)
	Flap Extended Speed V_{FE}:	120 KIAS (120 KCAS) *LND*
		126 KIAS (127 KCAS) *TO*
	Minimum Control Speed V_{MC}:	71 KIAS (77 KCAS) *TO*
		68 KIAS (74 KCAS) *LND*
	Cruising Speed V_{NO}:	178 KIAS (177 KCAS)
	Never Exceed Speed V_{NE}:	226 KIAS (222 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 (Basic)	Take-off	3600 kg (7936 lb)
	Landing	3600 kg (7936 lb)
13.1 Maximum Masses (Optional) see note 5:		
	Take-off	3680 kg (8113 lb)
	Landing	3630 kg (8003 lb)
14. Centre of Gravity Range	Forward limit:	
	0.367 m	(18.0 % MAC) behind Datum up to 3000Kg
	0.441 m	(22.0 % MAC) behind Datum at MTOW:3600Kg
	0.450 m	(22.5 % MAC) behind Datum at MTOW:3680Kg(see note 5).
	Straight line variation between indicated points.	
	Rear limit:	
	0.606 m	(31.0 % MAC) behind Datum
	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 Elevator Trim Tab: -8 ±2° upward / -21°±2° downward Elevator Trim Tab: -6 ±4° upward / -23°±4° downward (see note 5). Aileron: 20°±2° upward / 15°±2° downward Aileron Trim Tab: 30°±2° upward / 28°±2° downward Rudder: 22°±2° left / 22°±2° right Rudder Trim Tab: 6°±2° left / 6°±2° right 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 (see note 6)
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

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 Manufacturer TCDS, propellers with designation having a "small" letter in the place of the brackets (for example "MTV-14-B-C-F/CF 195-30x") may be installed since it does not affect interchangeability. A capital letter in the place of the bracket (for example MTV-14-B-C-F/CF 195-30X) may not be installed according to propeller TCDS since it may affect interchangeability

Note 2: Fuel Combustion Heater change (MOD2012/008) 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

Note 5: When MOD 2012/017 (EASA approval 10073218) "MTOW increment up to 3680kg" is installed

Note 6: the maximum passenger seating capacity is limited when MOD2012/098 (EASA approval 10074612) "SMP configuration" is installed, refer to details reported in No.2012/100 "AFM Supplement S-15, Section 2".

SECTION ADMINISTRATIVE

I. Acronyms & Abbreviations

AFM – Aircraft Flight Manual
AMM – Aircraft Maintenance Manual
CRI – Certification Review Item
CS – Certification Specification
EASA – European Union 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. Via S. D'acquisto, 62 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	/
04	27 December 2019	Updated propeller and engine information (field A.III (5.1 and 7.1). Amended note 1	/
05	06 May 2020	MOD 2012/017 (EASA N.10073218) is added	/
06	20 October 2020	MOD 2012/098 (EASA N.10074612) (SMP) is added	

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