Civil Aviation Authority
United Kingdom

TYPE-CERTIFICATE DATA SHEET

UK.TC.A.00047

for

P2002

Costruzioni Aeronautiche TECNAM S.P.A.

Via S. D'Acquisto, 62

80042, Boscotrecase (Naples)

Italy

Model(s):	P2002-JF P2002-JR P-Mentor
Issue:	1
Date of issue:	24 November 2022

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-

2. Airworthiness Category

Normal Category

3. Type Certificate Holder

Costruzioni Aeronautiche Tecnam S.p.A.
Via Salvo D'acquisto 62
80042, Boscotrecase (Naples)
Italy

4. Manufacturer

Costruzioni Aeronautiche Tecnam S.p.A.
Via Salvo D'acquisto 62
80042, Boscotrecase (Naples)
Italy

5. State of Design Authority

European Union Aviation Safety Agency (EASA)

6. JAA Certification Application Date

29 May 2002

7. JAA validation Date (JAA recommendation)

27 May 2004

8. EASA Type Certification Date

27 May 2004

II. Certification Basis

1. Reference date for determining the applicable requirements

29 May 2002

2. Airworthiness Requirements

- CS-VLA dated 14 November 2003 (Equivalent to JAR-VLA ed. 26 April 1990 including amendments VLA/91/1 dated 22 October 1991 and VLA/92/1 dated 01 January 1992)

3. Requirements elected to comply

None.

4. Special Conditions

- EASA CRI A-03 (SC VLA VFR Night) (see Section 1.V Note 2 and 3)

5. Exemptions

None.

6. Equivalent Safety Findings

None.

7. Environmental Standards

7.1 Noise

Refer to TCDSN UK.TC.A.00047.

7.2 Emissions and Fuel Venting

Not applicable (N/A).

III. Technical Characteristic and Operating Limitations

1. Type Design Definition (TDD)

Doc. 2002/04 ed.1 rev.0 “Type design definition” or later approved revisions.

2. Description

Single engine, two-seat cantilever low wing airplane, aluminium and steel construction, fixed tricycle landing gear.

3. Equipment

Equipment list, AFM, Doc. 2002/28, Section 6.

4. Dimensions

Span	8.6 m (28.2 ft)
Length	6.6 m (21.7 ft)
Height	2.4 m (7.9 ft)
Wing Area	11.5 m² (123.8 ft^2)

5. Engines

5.1 Models

1. BRP-Rotax GmbH 912 S2 (see Section 1.V Note 1)

   CAA Type Certificate No. UK.TC.E.00050

2. Aeroplanes with modification No. MOD2002/127 applied:

   BRP-Rotax GmbH 912 S3

   CAA Type Certificate No. UK.TC.E.00050

5.2 Engine Limits

Max rotational speed (5 min) 5800 rpm.

Max continuous rotational speed 5500 r.m (Engine shaft rpm)

Other engine limitations are listed in Doc. 2002/28 “Aircraft Flight Manual”

6. Propellers

1. One Hoffmann Propeller HO17GHM A 174 177C

   Two blades, fixed pitch, made of wood.

LBA TCDS 32.110/1.

Type Certificate No. SO/E 30 dated 10/12/1999

Diameter: 1740 mm

2. Aeroplanes with modification n. MOD2002/127 applied:

One Hoffmann Propeller HOV352F1/C170FQ+8

Two blades, variable pitch, made of wood.

LBA TCDS 32.130/88 dated 20/08/2003

Diameter: 1780 mm

7. Fluids

7.1 Fuel

Min. RON 95

EN 228 Premium

EN228 Premium plus

AVGAS 100LL (see applicable Rotax Operators Manual)

7.2 Oil

Lubrificant specifications and grade are detailed in the applicable “Rotax Operators Manual” and in its related documents.

7.3 Coolant

Coolant specifications and detailed are detailed in the applicable “Rotax Operators Manual” and in its related documents Section 2.

8. Fluid capacities

8.1 Fuel

Total: 100 litres

Usable: 99 litres

8.2 Oil

Total: 3.0 litres

Minimum: 2.0 litres

9. Air Speeds

Design Manoeuvring Speed V_A	96 KIAS	94 KCAS

For aeroplanes with modification MOD2002/29, or equivalent Service Bulletin n. SB010-CS, installed:

98 KIAS	96 KCAS

For aeroplanes with modification MOD2002/87, or equivalent Service Bulletin n. SB0105-CS, installed:

100 KIAS	97 KCAS

Flap Extended Speed V_{FE}	67 KIAS Full	69 KCAS Full
	97 KIAS Take-Off	95 KCAS Take-Off

For aeroplanes with modification n. MOD2002/29, or equivalent Service Bulletin n. SB010-CS, installed:

	68 KIAS Full	70 KCAS Full
	99 KIAS Take-Off	97 KCAS Take-Off

For aeroplanes with modification n. MOD2002/87, or equivalent Service Bulletin n. SB0105-CS, installed:

	69 KIAS Full	71 KCAS Full
	101 KIAS Take-Off	98 KCAS Take-Off

Maximum structural cruising speed V_{NO}	110 KIAS	106KCAS

For aeroplanes with modification n. MOD2002/29, or equivalent Service Bulletin n. SB010-CS, installed:

	112 KIAS	108 KCAS

For aeroplanes with modification n. MOD2002/87, or equivalent Service Bulletin n. SB0105-CS, installed:

	114 KIAS	110 KCAS

Never exceed speed V_{NE}	138 KIAS	135 KCAS

For aeroplanes with modification n. MOD2002/29, or equivalent Service Bulletin n. SB010-CS, installed:

	141 KIAS	138 KCAS

For aeroplanes with modification n. MOD2002/87, or equivalent Service Bulletin n. SB0105-CS, installed:

	142 KIAS	140 KCAS

10. Allweather Operations Capability

Day VFR

Night VFR is allowed (see Section 1.V Note 2)

Flight into expected or actual icing conditions is prohibited.

11. Maximum Masses

Take-Off: 580 kg

Zero Fuel: 580 kg

Landing: 580 kg

For aeroplanes with modification n. MOD2002/29, or equivalent Service Bulletin n. SB010-CS, installed:

Take-off: 600 kg

Zero Fuel: 600 kg

Landing: 600 kg

For aeroplanes with modification n. MOD2002/87, or equivalent Service Bulletin n. SB0105-CS, installed:

Take-off: 620 kg

Zero Fuel: 620 kg

Landing: 620 kg

12. Centre of Gravity Range

Forward Limit: 1.693 m behind Datum

Aft Limit: 1.782 m behind Datum

13. Datum

Propeller support flange without spacer.

14. Levelling Means

Seat support trusses (see “P2002-JF Flight Manual” Sect.6 for the procedure).

15. Minimum Flight Crew

1 (Pilot)

16. Maximum Passenger Seating Capacity

1

17. Baggage/Cargo Compartments

Maximum Allowable Load: 20 kg (44 lb)

Location: 2.26 m aft the datum

18. Wheels and Tyres

Nose Wheel Tyre Size: 4.00-6

Main Wheel Tyre Size: 5.00-5

IV. Operating and Service Instructions

1. Aircraft Flight Manual (AFM)

Document No. 2002/28 Last edition.

2. Airplane Maintenance Manual (AMM)

Document No. 2002/30 Last edition (including Airworthiness Limitations)

3. Service Information and Service Bulletins

None.

V. Notes

1. When engine with designation extended with suffix “-01” (e.g. Rotax 912 S2-01) is installed (as per MOD2001/157, EASA approval 10053863), the engine temperature measurement methods have been amended from CHT (cylinder head temperature) and CT (coolant temperature) to only CT (coolant temperature).
2. Night VFR operations are allowed when MOD2002/050 "P2002 VFR Night for Digital configuration" (EASA approval No. 10033950) or MOD2002/084 "P2002 VFR Night for Analogue configuration" (EASA approval No. 10034907) is installed.
3. UK.TC.A.00047 Annex 1 contains public non-proprietary data in Special Conditions that are part of the applicable Certification Basis as recorded in this TCDS.

Section 2 P2002-JR

I. General

1. Type / Model / Variant

1.1 Type

P2002

1.2 Model

P2002-JR

1.3 Variant

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2. Airworthiness Category

Normal Category

3. Type Certificate Holder

Costruzioni Aeronautiche Tecnam S.p.A.
Via Salvo D'acquisto 62
80042, Boscotrecase (Naples)
Italy

4. Manufacturer

Costruzioni Aeronautiche Tecnam S.p.A.
Via Salvo D'acquisto 62
80042, Boscotrecase (Naples)
Italy

5. State of Design Authority

European Union Aviation Safety Agency (EASA)

6. JAA Certification Application Date

29 May 2002

7. JAA validation Date (JAA recommendation)

27 May 2004

8. EASA Type Certification Date

02 February 2007

II. Certification Basis

1. Reference date for determining the applicable requirements

16 December 2004

2. Airworthiness Requirements

CS-VLA dated 14/11/2003

3. Requirements elected to comply

None.

4. Special Conditions

- EASA CRI A-03 (SC VLA VFR Night) (see Section 2.V Note 2 and 3)

5. Exemptions

None.

6. Equivalent Safety Findings

None.

7. Environmental Standards

7.1 Noise

Refer to TCDSN UK.TC.A.00047.

7.2 Emissions and Fuel Venting

N/A.

III. Technical Characteristic and Operating Limitations

1. Type Design Definition (TDD)

Doc. 2002/04 ed.1 rev.0 “Type design definition” or later approved revisions.

2. Description

Single engine, two-seat cantilever low wing airplane, aluminum and steel construction, retractable tricycle landing gear.

3. Equipment

Equipment list, AFM, Doc. 2002/91, Section 6.

4. Dimensions

Span	8.6 m (28.2 ft)
Length	6.6 m (21.7 ft)
Height	2.4 m (7.9 ft)
Wing Area	11.5 m² (123.8 ft^2)

5. Engine/s

BRP-Rotax GmbH 912 S3 (see Section 2.V Note 1)

CAA Type Certificate No. UK.TC.E.00050

5.1 Engine Limits

Max rotational speed (5 min) 5800 rpm

Max continuous rotational speed 5500 rpm (Engine shaft rpm)

Other engine limitations are listed in Doc. 2002/91 “Aircraft Flight Manual”.

6. Propellers

One Hoffmann Propeller HOV352F1/C170FQ+8

Two blades, variable pitch, made of wood.

LBA TCDS 32.130/88 dated 20/08/2003

Diameter : 1780 mm

6.1 Settings

Low pitch setting: 13°

7. Fluids

7.1 Fuel

Min. RON 95

EN 228 Premium

EN228 Premium plus

AVGAS 100LL (see Rotax Operators Manual)

7.2 Oil

Lubrificant specifications and grade are detailed in the “Rotax Operators Manual” and in its related documents.

7.3 Coolant

Coolant specifications and detailed are detailed in the “Rotax Operators Manual” and in its related documents Section 2.

8. Fluid capacities

8.1 Fuel

Total: 100 litres

Usable: 99 litres

8.2 Oil

Total: 3.0 litres

Minimum: 2.0 litres

9. Air Speeds

Design Manoeuvring Speed V_A	99 KIAS	96 KCAS
Flap Extended Speed V_{FE}	68 KIAS	70 KCAS
Maximum landing gear operation speed V_{LO}	68 KIAS	70 KCAS
Maximum structural cruising speed V_{NO}	113 KIAS	108 KCAS
Never exceed speed V_{NE}	144 KIAS	138 KCAS

10. Allweather Operations Capability

Day VFR

Night VFR is allowed (see Section 2.V Note 2)

Flight into expected or actual icing conditions is prohibited.

11. Maximum Masses

Take-Off: 600 kg

Zero Fuel: 600 kg

Landing: 600 kg

12. Centre of Gravity Range

Forward Limit: 1.746 m behind Datum

Aft Limit: 1.801 m behind Datum

13. Datum

Propeller support flange without spacer.

14. Levelling Means

Seat support trusses (see “P2002-JF Flight Manual” Sect. 6 for the procedure).

15. Minimum Flight Crew

1 (Pilot)

16. Maximum Passenger Seating Capacity

1

Baggage/Cargo Compartments

Max Allowable Load: 20 kg (44 lb)

Location: 2.3 m aft the datum.

17. Wheels and Tyres

Nose Wheel Tyre Size: 4.00-5

Main Wheel Tyre Size: 5.00-5

IV. Operating and Service Instructions

1. Aircraft Flight Manual (AFM)

Document No. 2002/091 last edition.

2. Airplane Maintenance Manual (AMM)

Document No. 2002/93 last edition (including Airworthiness Limitations)

3. Service Information and Service Bulletins

None

V. Notes

1. When engine with designation extended with suffix “-01” (e.g. Rotax 912 S2-01) is installed (as per MOD2001/157, EASA approval 10053863), the engine temperature measurement methods have been amended from CHT (cylinder head temperature) and CT (coolant temperature) to only CT (coolant temperature).
2. Night VFR operations are allowed when MOD2002/050 "P2002 VFR Night for Digital configuration" (EASA approval No. 10033950) or MOD2002/084 "P2002 VFR Night for Analogue configuration" (EASA approval No. 10034907) is installed.
3. UK.TC.A.00047 Annex 1 contains public non-proprietary data in Special Conditions that are part of the applicable Certification Basis as recorded in this TCDS.

Section 3 P-Mentor

I. General

1. Type / Model / Variant

1.1 Type

P2002

1.2 Model

P-Mentor

1.3 Variant

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2. Airworthiness Category

Normal Category

3. Type Certificate Holder

Costruzioni Aeronautiche Tecnam S.p.A.
Via Salvo D'acquisto 62
80042, Boscotrecase (Naples)
Italy

4. Manufacturer

Costruzioni Aeronautiche Tecnam S.p.A.
Via Salvo D'acquisto 62
80042, Boscotrecase (Naples)
Italy

5. State of Design Authority

European Union Aviation Safety Agency (EASA)

6. EASA Type Certification Application Date

19 February 2020

7. EASA Type Certification Date

06 April 2022

II. Certification Basis

1. Reference date for determining the applicable requirements

19 February 2020

2. Airworthiness Requirements

- CS-23 amdt. 5 dated 29 March 2017
- CS-ACNS issue 2 dated 26 April 2019

3. Requirements elected to comply

None.

4. Special Conditions

None.

5. Exemptions

None.

6. Equivalent Safety Findings

None.

7. Environmental Standards

Refer to TCDSN UK.TC.A.00047.

7.1 Emissions and Fuel Venting

N/A

III. Technical Characteristic and Operating Limitations

1. Type Design Definition (TDD)

Doc. 2002/1000 ed.1 rev.0 “P-Mentor type design definition” or later approved revisions.

2. Description

Single engine, two-seat cantilever low wing airplane, aluminum and steel construction, fixed tricycle landing gear.

3. Equipment

Equipment list, AFM, Doc. 2002/1032, Section 6.

4. Dimensions

Span	9.00 m (29.5 ft)
Length	6.74 m (22.1 ft)
Height	2.50 m (8.2 ft)
Wing Area	11.9 m² (128.1 ft^2)

5. Engine/s

BRP-Rotax GmbH 912 iSc3 Sport

CAA Type Certificate No. UK.TC.E.00050

5.1 Engine Limits

Max rotational speed (5 min) 5800 rpm.

Max continuous rotational speed 5500 rpm (Engine shaft rpm)

Other engine limitations are listed in Doc. 2002/1032 “Aircraft Flight Manual”.

6. Propellers

One MT Propeller MTV-21-A/180-51

Two blades, variable pitch constant speed.

CAA Type Certificate No. EASA.P.101

Diameter: 1800 mm

7. Fluids

7.1 Fuel

Min. RON 95

EN 228 super

EN228 super plus

AVGAS 100LL (see Rotax Operators Manual)

7.2 Oil

Lubricant specifications and grade are detailed in the “Rotax Operators Manual” and in its related documents.

7.3 Coolant

Coolant specifications and details are detailed in the “Rotax Operators Manual” and in its related documents Section 2.

8. Fluid capacities

8.1 Fuel

Total: 140 litres

Usable: 131.6 litres

8.2 Oil

Total: 3.0 litres

Minimum: 2.5 litres

9. Air Speeds

Design Manoeuvring Speed V_A	102 KIAS	103 KCAS
Flap Extended Speed (Take-Off) V_{FE_TO}:	106 KIAS	105 KCAS
Flap Extended Speed (Land) V_{FE_LAND}:	96 KIAS	95 KCAS
Maximum structural cruising speed V_{NO}:	107 KIAS	108 KCAS
Never exceed speed V_{NE}:	135 KIAS	136 KCAS

10. All weather Operations Capability

Day/Night VFR

IFR

Flight into expected or actual icing conditions is prohibited.

11. Maximum Masses

Take-Off: 720 kg

Landing: 720 kg

12. Centre of Gravity Range

Forward Limit: 1.753m behind Datum up to 550 kg

1.780 m behind Datum at 720 kg (MTOM)

Aft Limit: 1.889 m behind Datum

13. Datum

Propeller support flange

14. Levelling Means

Seat support trusses (see “P-Mentor Flight Manual” Section 6 for the procedure).

15. Minimum Flight Crew

1 (Pilot)

16. Maximum Passenger Seating Capacity

1

17. Baggage/Cargo Compartments

Max Allowable Load: 30 kg (66 lb)

Location: 2.26 m aft the datum

18. Wheels and Tyres

Nose Wheel Tyre Size: 5.00-5

Main Wheel Tyre Size: 5.00-5

IV. Operating and Service Instructions

1. Aircraft Flight Manual (AFM)

Doc. No 2002/1032 “Aircraft Flight Manual” Issue. 1 or latest issue.

2. Airplane Maintenance Manual (AMM)

Doc. No 2002/1033 “Aircraft Maintenance Manual” Issue. 1 or latest issue.

3. Illustrated Parts Catalogue (IPC)

Doc. No 2002/1234 “Aircraft Illustrated Parts Catalogue” Issue. 1 or latest issue.

V. Notes

None.

Section 4 Administrative Section

I. Acronyms and Abbreviations

Acronym / Abbreviation	Definition
a/c	Aircraft
AFM	Aircraft Flight Manual
AMM	Aircraft Maintenance Manual
ASTM	American Society for Testing and Materials
CAA	Civil Aviation Authority
CRI	Certification Review Item
CS	Certification Specification
ft	Feet
ICAO	International Civil Aviation Organization
IFR	Instrument Flight Rules
IPC	Illustrated Part Catalogue
JAA	Joint Aviation Authorities
KCAS	Knots Calibrated Air Speed
kg	Kilogram(s)
KOEL	Kind of Operations Equipment List
lb	Pound(s)
LND	Landing
m	Metre(s)
MAC	Mean Aerodynamic Chord
MTOM	Maximum Take-Off Mass
S/N	Serial Number
TC	Type Certificate
TCDS	Type Certificate Data Sheet
TCDSN	Type Certificate Data Sheet for Noise
TCH	Type Certificate Holder
TO	Take-Off
UK	United Kingdom
VFR	Visual Flight Rules
VLA	Very Light Aircraft

II. Type Certificate Holder Record

TCH Record	Period
Costruzioni Aeronautiche TECNAM S.p.A. Via Salvo D'Acquisto, 62 80042, Boscotrecase (Naples) Italy	Present. No changes.

III. Amendment Record

TCDS Issue No.	TCDS Issue Date	Changes	TC Issue and Date
1	24 Nov 2022	The content of the initial issue of UK CAA TCDS was taken from EASA TCDS No. EASA.A.006 Issue 10 dated 20 December 2019 which was the current EASA version at 31 December 2020 and therefore the version of the TCDS for the P2002 accepted by the UK under Article 15 of Annex 30 of the UK-EU Trade and Cooperation Agreement.Section 1 II.2 The following changes have been made: ▪ Section 1.II.8.1: added reference to UK TCDSN. ▪ Section 1.III.5.1: added reference to UK TCDS for the engine. ▪ Section 2.II.8.1: added reference to UK TCDSN. ▪ Section 2.III.5.1: added reference to UK TCDS for the engine. ▪ Section 3: created new section for the addition of the P-Mentor model, MOD2002/217 (EASA approval No. 10078966) (CAA ref. UK.MAJ.00164)	Issue 1 24 Nov 2022

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