TYPE-CERTIFICATE
DATA SHEET

NO. EASA.A.592

for
SportStar RTC

Type Certificate Holder
Evektor, spol. s r.o.

Letecka 1008
686 04 Kunovice
CZECH REPUBLIC

For models: SportStar RTC
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SECTION A: MODEL A DESIGNATION

A.I. General

1. Type/ Model/ Variant
   1.1 Type
   1.2 Model
   1.3 Variant
2. Airworthiness Category
3. Manufacturer
4. EASA Type Certification Application Date
5. EASA Type Certification Date

A.II. EASA Certification Basis

1. Reference Date for determining the applicable requirements
2. Airworthiness Requirements
   As defined in CRI A-01, latest issue
   CS-LSA, initial issue, dated 27 June 2011,
   CS-LSA, Amendment 1, dated 29 June 2013 for KW-31 Major change
3. Special Conditions
   SC-OLSA-div-01 (CRI A-01) VFR night flights for LSA (Note 1), and
   CAI E-01 Equipment qualification
4. Exemptions
   None
5. (Reserved) Deviations
   None
6. Equivalent Safety Findings
   None
7. Environmental Protection
   ICAO, Annex 16, Volume 1, Chpt. 10
# Technical Characteristics and Operational Limitations

1. **Type Design Definition**
   Final assembly S0 00-08 01 SportStar RTC in the state of the date 11 May 2012

2. **Description**
   Single engine, two-seater, all metal, cantilever low-wing monoplane with two side-by-side seats, fixed tricycle landing gear, tractor propeller.

3. **Equipment**
   The minimum equipment is listed in approved Pilot’s Operating Handbook, Doc. No. ERCO20-10-AS

4. **Dimensions**
   - Span: 8.646 m (28.37 ft)
   - Length: 5.98 m (19.62 ft)
   - Height: 2.476 m (8.12 ft)
   - Wing Area: 10.6 m² (114.1 sqft)

5. **Engine**
   - **5.1.1. Model**: ROTAX 912 ULS2
   - **5.1.2. Type Certificate**: Certified as part of the aircraft
   - **5.1.3. Limitations**
     - Max take-off speed: 5800 rpm (5 min.)
     - Max continuous speed: 5500 rpm
     - Idle speed: approx. 1400 rpm
     - For power-plants limits refer to Pilot’s Operating Handbook, Doc. No. ERCO20-10-AS

   or alternative

   - **5.2.1. Model**: ROTAX 912 S2
   - **5.2.2. Type Certificate**: EASA.E.121
   - **5.2.3. Limitations**
     - Max take-off speed: 5800 rpm (5 min.)
     - Max continuous speed: 5500 rpm
     - Idle speed: approx. 1400 rpm
     - For power-plants limits refer to Pilot’s Operating Handbook, Doc. No. ERCO20-10-AS

6. **Load factors**
   None

7. **Propeller**
   - **7.1.1 Model**: Woodcomp KLASSIC 170/3/R
   - **7.1.2. Type Certificate**: None
   - **7.1.3. Number of blades**: 3
   - **7.1.4 Diameter**: 1708 ± 4 mm
   - **7.1.5 Sense of Rotation**: Clockwise

   or alternative
7.2.1 Model  Woodcomp KW-31-A-E-3-0-0-F/R-173-033
7.2.2 Type Certificate  TCDS.P.177
7.2.3 Number of blades  3
7.2.4 Diameter  1726 ± 4 mm
7.2.5 Sense of Rotation  Clockwise

8. Fluids

8.1 Fuel  Automotive gasoline with octane index min. RON 95 or AVGAS 100 LL or AVGAS UL91 (unleaded)
For more details see Pilot’s Operating Handbook, Doc. No. ERTC020-10-AS, Section 2

8.2 Oil  Performance classification SG or higher
For more details see Pilot’s Operating Handbook, Doc. No. ERTC020-10-AS, Section 2

8.3 Coolant  Conventional or waterless coolant
For more details see Operators Manual for Rotax engine type 912 series, Doc. No. OM-912

9. Fluid capacities

9.1 Fuel  Total: 120 litres
Usable: 118 litres

9.2 Oil  MAX mark: 3.0 litres
MIN mark: 2.5 litres

9.3 Coolant system capacity  approx. 1.5 litres

10. Air Speeds  Design Manoeuvring Speed VA: 90 KIAS  167 km/h IAS
Maximum Flap Extended Speed VFE:70 KIAS  130 km/h IAS
Design cruising speed VC  115 KIAS  214 km/h IAS
Never exceed speed VNE:  146 KIAS  270 km/h IAS

Airplane with Woodcomp KW-31-033 propeller
Design Manoeuvring Speed VA:  88 KIAS  163 km/h IAS
Design cruising speed VC  113 KIAS  209 km/h IAS

11. Flight Envelope

12. Approved Operations Capability Day-VFR
Night VFR (Note 1)
Flight into expected or actual icing conditions is prohibited

13. Maximum Masses  Take-off:  600 kg (1323 lb)
Landing:  600 kg (1323 lb)

14. Centre of Gravity Range  Forward limit:  20% MAC
Rear limit:  32% MAC
MAC:  1.25 m

15. Datum  Reference datum is the wing leading edge

16. Control surface deflections  Refer to AMM
17. Levelling Means
   - Lengthwise: levelling point 1 and 2
   - Crosswise: levelling point 5 and 7

18. Minimum Flight Crew
   1 (Pilot)

19. Maximum Passenger Seating Capacity
   1

20. Baggage/ Cargo Compartments
   - Location: Behind the Seats
   - Max. allowable Load: 25 kg (55.1 lbs)

21. Wheels and Tyres
   - Nose Wheel Tyre Size: 15 x 6.00 – 6
   - Main Wheel Tyre Size: 15 x 6.00 – 6

22. (Reserved)
A.IV. Operating and Service Instructions

1. Flight Manual
   Pilot’s Operating Handbook, Doc. No. ERTC020-10-AS

   Airplane Maintenance Manual, Doc. No. ERTC022-10-AS (incl. Airworthiness Limitations)
   Service Information and Service Bulletins

   Refer to Pilot’s Operating Handbook,
   Doc. No. ERTC020-10-AS, Amendment 1

   Refer to Pilot’s Operating Handbook,
   Doc. No. ERTC020-10-AS, Amendment 1

5. Illustrated Parts Catalogue
   Illustrated Parts Catalogue, Doc. No. ERTC027-10-AS
A.V. Notes

Note 1 – Supplement No. 31 “VFR Night Operation” must be contained in Pilot’s Operating Handbook when the SportStar RTC airplane is equipped for VFR Night operation.
SECTION ADMINISTRATIVE

I. Acronyms & Abbreviations
AMM Aircraft Maintenance Manual
CAI Certification Action Item
CRI Certification Review Item
CS-LSA Certification Specification for Light Sport Aeroplanes
EASA European Aviation Safety Agency
IAS Indicated Airspeed
KIAS Indicated Airspeed [knots]
MAC Mean Aerodynamic Chord
POH Pilot’s Operating Handbook
RPM Rotations per Minute
TCDS Type Certificate Data Sheet

II. Type Certificate Holder Record
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686 04 Kunovice
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III. Change Record

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