

**State of Israel
Ministry of Transport
Civil Aviation Authority**

Number:	IA192
Revision:	0
Make:	Costruzioni Aeronautiche Tecnam
s.r.l. Via Tasso, 478 80127 Napoli, Italy	
Model:	P2002 Sierra
23 March, 2006	

TYPE CERTIFICATE DATA SHEET NO. IA192

This Data Sheet which is part of Type Certificate No. IA192 prescribes conditions and limitations under which the aircraft for which the Type Certificate was issued meets the airworthiness requirements of the Aviation Regulations (Certification Procedures for Aircraft and Parts thereof) – 1977 - תשס"ז - תקנות הטיס

Type Certificate Holder: **Costruzioni Aeronautiche Tecnam s.r.l. Via Tasso, 478 80127 Napoli, Italy**
Model: P2002 Sierra

I. Model P2002 Sierra, Ultra-Light Category, Approved by CAAI February 2, 2006

Engine 1 ROTAX 912ULS2 (100 HP) per Limitations Section of CAAI approved Airplane Flight Manual (AFM).

Fuel Gasoline, minimum 95 octane rating per Limitations Section of CAAI approved AFM.

Oil Use SAE specification oil, see also Engine Manual.

Engine limits (RPM)

- Maximum (Limited for 5 minutes)	5800
- Maximum continuous	5500
Cylinder Head Temperature	
- Maximum	150°C
- Minimum for Flight	60°
Oil Temperature	
- Maximum	140°C
- Minimum for Flight	50°C
Oil Pressure	
- Maximum	7.0 bar
- Minimum	0.8 bar
- Normal Operating Temperature	2.0-5.0 bar

Propeller Tonini GT-2/173/VRR-SRTC FW 01 Two wood Blades, fixed pitch
(See Propeller Manual).

Levelling means Seat support trusses (See AFM, Section 6).

Airspeed Limits (Mph)

- Vne (never exceed speed)	178
- Vmo (Maximum operational speed in level flight)	100
- Va (Maneuvering speed)	100
- Vso (Stalling speed flaps down)	40
- Vs1 (Stalling speed flaps up)	46
- Vfe (Maximum flaps extended speed)	81

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<u>Controls Surfaces Travel:</u>	Ailerons 20° Up (± 2°) 15° Dn (± 2°) Elevator 15° TEU (± 1°) 3° TE°D (± 1°) Trim Tab 2° ; 9° deg. (± 1°) Rudder Left 30° Right 30° (± 2°) Flaps 0° ; 40° (± 2°)
<u>Center of Gravity Range:</u>	Fwd Limit: 1693 mm behind Datum; (26.0% of MAC) Rear Limit: 1728 mm behind Datum. (32.5% of MAC)
<u>Datum</u>	Propeller support flange without spacer
<u>Maximum Weights</u>	- Maximum Take-Off 454 KG (See Notes 2, 4, 5) - Maximum Landing 454 KG - Maximum Pilot and Passenger 172 KG
<u>Maximum Baggage</u>	20 KG, 2.26 m aft the datum
<u>Minimum Crew</u>	One pilot
<u>Number of seats</u>	Two
<u>Wheels and Tyres</u>	Nose Wheel Tyre Size 4.00-6; Main Wheel Tyre Size 5.00-5
<u>Fuel Capacity (liters)</u>	Total Fuel: 100
<u>Oil Capacity (liters)</u>	2.5 (2 litres minimum)
<u>Cooling System</u>	Per Limitations Section of CAAI approved AFM
<u>Manufacturer Serial Numbers eligible</u>	Model P2002 Sierra S/N 141 and Subsequent
<u>Certification Basis</u>	BCAR CAP 482 Section S, Rev. 3
<u>Type Design Data</u>	The Model P2002 Sierra consists of the components defined by Drawing List 2002/129.
<u>Import Requirements</u>	Israeli Airworthiness Certificate may be issued on the basis of a Tecnam Statement of Conformity containing the following statement: "The airplane covered by this certificate has been examined, tested and found to conform to the type design approved under CAAI Type Certificate No. IA192 and to be in condition for safe operation".
<u>Equipment</u>	The basic required equipment as prescribed in the applicable airworthiness regulation (see certification basis) must be installed in the aircraft for certification. The Required Equipment for the kinds of approved operations are listed in the Tecnam P2002 Sierra AFM, dated December 28, 2005.
<u>Service Information</u>	P2002 Sierra Technical Information (Service Bulletins), issued by Tecnam and approved by CAAI. Available documents for P2002 Sierra: - AFM 2002/127, CAAI approved February 2, 2006 - Maintenance Manual 2002/128 dated December 28, 2005.

Other Operating Limitations Aircraft shall be operated according to Operating Limitations of the CAAI approved AFM.

NOTES:

- NOTE 1: (a) Current weight and balance report including list of equipment included in certified empty weight and loading instructions must be provided for each aircraft at the time of original certification.
- (b) The airplane must be loaded so that the C.G. is within the specified limits at all times.
- NOTE 2: All required placards listed in the limitation section of the CAAI approved AFM must be installed in the appropriate locations in the airplane.
- NOTE 3: Information essential to the proper servicing and maintenance of the aircraft is contained in the manufacturer's Maintenance Manual marked Tecnam.
Mandatory replacement times, structural inspection intervals and related structural inspection procedures are presented in the approved section of the Maintenance Manual.
- NOTE 4: Major structural repairs must be accomplished at CAAI certificated repair stations in accordance with Tecnam repair methods approved by CAAI.
- NOTE 5: Placards must be posted in the cockpit, as follows:
- | | |
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| 1. Maximum Takeoff Weight: | 454 Kg. |
| 2. Minimum Fuel Capacity for Take Off: | 15 liters |

END