



QUALITY AIRCRAFT SINCE 1948
TECNAM

P2002 Sierra

De Luxe - Turbo

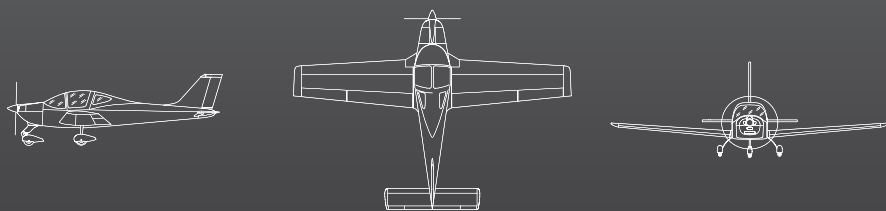
P2002 Sierra De Luxe - Turbo

To design the P2002 Sierra Tecnam has made use of the most advanced systems of 3D design, fluid dynamics and structural analysis, resulting in one of the best two-seater low wing aircraft in its category.

Tapered laminar flow wing, slotted flaps, up turned wing tips and a streamlined fuselage give to the P2002 superlative performance, a complete harmony of controls and style.

The resulting product is a symphony of aerodynamic and structure effectiveness with graceful, fluid flight.

Designed with the pilot in mind, this aircraft will delight even the most discerning pilot while still keeping the inexperienced pilot safe and comfortable.



ADVANTAGES

- Superior performance and flight characteristics
- Stable and responsive
- Exciting, yet easy to fly
- High level of comfort that makes it ideal for long flights
- Excellent visibility
- Sliding canopy can be opened in flight

SPECIFICATIONS

ENGINE	P2002 SIERRA DE LUXE		P2002 SIERRA TURBO	
Manufacturer	ROTAX		ROTAX	
Model	912 ULS		914 UL	
Power	98 hp		115 hp	
Number of Cylinders	4		4	
PROPELLER				
Manufacturer	GT PROPELLER		GT PROPELLER	
Model	GT-2/173/VRR-SRTC FW101		GT	
Number of Blades	2		2	
Type	FIX PITCH - WOOD		FIX PITCH - WOOD	
DESIGN WEIGHT & LOADING				
MTOW	600 kg	1320 lb	600 kg	1320 lb
Baggage Allowance	20 kg	44 lb	20 kg	44 lb
Limit Loads	+4 / -2 G		+4 / -2 G	
Ultimate Loads	+6 / -3 G		+6 / -3 G	
DIMENSION				
Fuselage Height	2,43 m	8 ft	2,43 m	8 ft
Fuselage Length	6,65 m	21,8 ft	6,65 m	21,8 ft
Wing Span	8,6 m	28,2 ft	8,6 m	28,2 ft
Cabin Width	1,11 m	3,6 ft	1,11 m	3,6 ft
Cabin Height SEAT TO COVER	0,91 m	3 ft	0,91 m	3 ft
Fuel Tank Capacity	50 X2 lt	13,2 X2 GAL	50 X2 lt	13,2 X2 GAL
PERFORMANCE				
15°C SEA LEVEL 450 KG / 990 LB				
VMAX	244 km/h	132 KTS	258 km/h	139 KTS
Cruise Speed 75%	226 km/h	122 KTS	242 km/h	130 KTS
VNE	285 km/h	154 KTS	290 km/h	157 KTS
Stall Speed FLAPS DOWN POWER OFF	65 km/h	35 KTS	65 km/h	35 KTS
Practical Ceiling	4572 m	15000 ft	5486 m	18000 ft
Takeoff Run	105 m	344 ft	120 m	394 ft
Takeoff Distance	200 m	656 ft	220 m	722 ft
Landing Run	90 m	295 ft	120 m	394 ft
Landing Distance	200 m	656 ft	270 m	885 ft
Rate of Climb	6,1 m/sec	1200 ft/min	6,6 m/sec	1300 ft/min
Range	636 N.M.		680 N.M.	

CONSTRUCTION

- The Tecnam line employs a monocoque tail cone section with sheet aluminium over steel tubing for the forward section.
- The aluminium tapered wing has a conventional structure with a forward load bearing spar and a conventional rear spar. The wing halves are attached to the fuselage by a very strong carry-through made of 2024-T3 grade aluminium fixed to the cabin truss.
- The fuel tanks hold 13.2 gal/50l each, located in the wing leading edges separated from the fuselage for safety.
- The fuel tanks hold 13.2 gal/50 each located in the wing leading edges, separated from the fuselage for safety.
- The sliding canopy allows 360° of vision from the cockpit. This can be opened in flight up to 70 knots.
- The all moving Stabilator is fitted with a trim tab controlled by buttons on the control column.
- The excellent flying characteristic with neutral handling makes it extremely stable and easy to fly for people of any weight/height.
- The ailerons are effective in allowing for a quick roll rate without being overly sensitive.
- All control surfaces are made out of aluminium.
- The canopy has full rollover protection.

LANDING GEAR

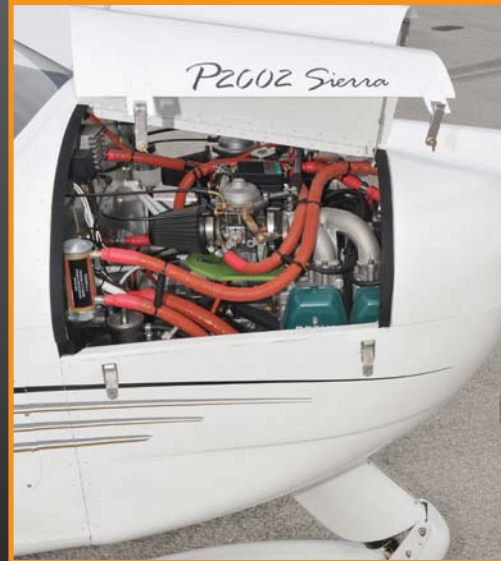
- The main landing gear legs are made of spring steel, directly connected to the main structure. The landing gear is robust enough for rough strips and requires no maintenance.
- The trailing link nose gear uses a rubber shock absorber system that was designed for the rigours of the training environment with easy and economical maintenance.
- The main landing gear wheels and brakes are conventional aircraft size (5.00x5)
- The brake lever control and the parking brake are located forward between the seats.

INTERIOR

- Seats are adjustable and increase in height as they are moved forward.
- The luggage area allowing for 44 pounds/20 kg of weight is located behind the seats with easy access in flight.
- The dual controls come standard with PTT on both sticks.
- The trim tab and the flaps are electrically activated with position indicators on the instrument panel.
- The fresh air vents are conveniently located on each side of the panel.
- The aircraft comes with dual rudder pedals with a steerable nose wheel.
- The interior is spacious, ergonomic and comfortable.
- Cabin is a roomy 36 in/111 cm wide.
- The wide instrument panel is designed to accommodate a full variety of instrumentation.
- Four point harness system is standard.

ENGINE AND PROPELLER

- The top and bottom engine cowls are quickly and easily removable making any maintenance easier to accomplish. The top cowl has 2 large hinged openings for easy access to the engine compartment, without the need for tools to allow effective pre-flight inspections.
- The engine's mount is steel-tubing with shock mounts. It also supports the nosewheel assembly.
- The power plant is a Rotax 912 ULS2 series (100 Hp) four-cylinder, four-stroke engine.
- The engine is a partially liquid and partially air cooled engine with an integral 1:2.4286 reduction gearbox.
- A fixed pitch wood and composite propeller comes as standard.
- The quick drain gascolator is installed in the engine compartment with easy outside access.
- The fuel system uses a mechanical engine driven pump along with an electrical back-up pump.
- The engine installation allows the option for an additional 40 Ah alternator.
- The battery is easily accessible through a hinged door in the rear fuselage.



STANDARD EQUIPMENT

FLIGHT INSTRUMENTS AND INDICATORS

Magnetic Compass
Airspeed Ind., Kts
Altimeter (In)
Vertical Speed
Bank Indicator
Flaps Indicator
Pitot System
Static System
Stabilator Trim Position Indicator

ENGINE INSTRUMENTS

Tachometer
Hour Recorder
Oil Press
Oil Temp.
Head Temp.
Fuel Press.
Voltmeter
Lh + Rh Fuel Qty

FLIGHT CONTROLS

Hydraulic Brakes
Parking Brake

Electrical Flaps
Dual Flight Controls
Steerable Nose Wheel
Stabilator Trim (Electric Actuated From Stick)
Engine Controls:
_ Throttle, Two
_ Choke
Flight Trim Controls: _ Stabilator With Indicator
Fuel Control Selector With On/Off
Panel Switches:
_ Starter
_ Fuel Pump
_ Engine LH + RH Ignition Switches

ELECTRICAL SYSTEM

12 Volt 18A Amp. Battery
12 Volt Alternators-20 Amp.
Switches:- Landing Light - Strobe Light
Circuit Fuses Panel

FUEL SYSTEM

Two Integral Fuel Tanks With 100 Lt Total Capacity
Engine Driven Fuel Pump
Auxiliary Fuel Pumps, Electric
Fuel Quick Drain

INTERIOR

Pilot And Copilot Seats:
Adjustable
Fore And Aft
Seat Belts & Shoulder Harness,
All Seats
Wall To Wall Carpeting
Luggage Compartments

EXTERIOR

Sliding Canopy With Lock And Key
Rear Window
Tie Down Rings
Main Wheels, 5,00 X 5
Nose Wheel, 4,00 X 6

EXTERIOR LIGHTS

Vertical Tail Strobe
Taxi Light

CABIN CONFORT SYSTEM

Ventilator Adjustable,
2 Place

POWERPLANT AND PROPELLER

P2002 SIERRA DELUXE:
· 1 Rotax 912ULS2 100 Hp,
4 Cylinders Liquid/Air Cooled,
Integrated Reduction Gear
· 1 Rotax 912UL2 115 Hp,
4 Cylinders Liquid/Air Cooled,
Integrated Reduction Gear
Dual Ignition System
Throttle Control Lh/Rh
Tubular Steel Engine Mount
P2002 SIERRA DELUXE:
· Gt Propeller, 2 Blade Fix
P2002 SIERRA TURBO:
· Gt Propeller, 2 Blade Variable Pitch
Propeller Spinner
Air Filter
Oil Filter
Oil And Water Coolers

PRODUCT SUPPORT/DOCUMENTS

Manufacturers Full Two Year
Limited Warranty
Pilots Operation Handbook
Maintenance Manual

COSTRUZIONI AERONAUTICHE TECNAM S.R.L.

Costruzioni Aeronautiche Tecnam operates in two facilities. The Casoria facility is located adjacent to the Napoli Capodichino Airport and covers an area of about 12.000 sqm with about 4.000 sqm of enclosed facilities. The Capua facility is located adjacent to the "Oreste Salomone" Airport, covers an area of about 45.000 sqm with about 11.000 sqm of enclosed facilities.

