



CIRRUS SR22 TN – N4927

GVML - Gruppo Volo Motore Lugano



Version: 01.07.2026

TECHNICAL DATA

Model and Series No.	SR22 TN G3 Series 2598 Build 2007 First registration 2007 Aircraft Type for Flight Plan: S22T			
Category Airplane	Category: Airplane Class: Single-Engine Land (SEP/L) Approach Category: A (V _{APP} < 91 KIAS) Noise Category: C Performance: B (max. 9 seats, < 5700 Kg) Airport Design Group: I (Wingspan < 15m)			
Engine	Continental IO-550-N, 6 cylinders fuel injected air cooled (9'013cm ³) SeriesNo 691912 310 HP (Turbo Normalizing TornadoAlley, 29" 25'000ft) RPM 2'700 TBO: 2000h/12 years Do not reduce Manifold Pressure below 15 InHg when above 18'000 ft. Outside Temperature Above: -40°C Avoid continuous operation with the fuel flow set between 18 GPH and 30 GPH with MP above 26" InHg			
Propeller and Governor	Type: Hartzell 3-blade constant spe Model: PHC-J3YF-1N/N7605B S/N FP5835B Diameter: 78.0" Clearance (between Tip of propeller and Ground): 23 cm (9") at 3'400 lb Governor: McCauley C290D3R/T23 S/N 070370			
Speed (KIAS) up to 17'500 ft (at 25'000ft, reduced linearly)	V_{ROT} 70-73 (obstacle: 78) V_x 79 V_y 101 V_{CLIMB} 120 (above 7'500 ft: 130) V_{CRUISE} PWR:65%-85% (max. 2500 RPM) V_{NE} 200 (at 25k ft: 170) V_{NO} 177 (at 15k ft: 151) V_{O-2900lb} 123 V_{O-3400lb} 133 V_{FE-50%} 119 V_{FE-100%} 104 V_{PD} 133 V_{LAND-100%} 80-85 V_{LAND-50%} 85-90 V_{LAND-0%} 90-95 V_{DEM-CROSS-WIND} 20 V_{GLIDE-2900lb} 87 V_{GLIDE-3400lb} 88 Best Glide: 8.5:1 (at 10'000 ft = ca 14 NM) TAS = IAS + 2% each 1000 ft D.A. GS = TAS+Wind			
Stall speed (KIAS) 3400lb – Most Fwd C.G.	BANK 0°: 73 (0-flaps) 66 (50%-flaps) 62 (100%-flaps) BANK 15°: 74 (0-flaps) 67 (50%-flaps) 64 (100%-flaps) BANK 30°: 76 (0-flaps) 71 (50%-flaps) 66 (100%-flaps) BANK 45°: 83 (0-flaps) 77 (50%-flaps) 72 (100%-flaps) BANK 60°: 99 (0-flaps) 90 (50%-flaps) 84 (100%-flaps) Horn sounds between 5 and 10 kts before the stall (full flaps and power off configuration). Do not use FLAP above 17'500 ft			
Measures	Length: 7.92 m (26.0') Wingspan: 11.67 m (38.3') Height: 2.71 m (8.9')			
Fuel Tanks	USABLE: 2 x 46 USG (92 USG = 348 l) TAB: 2 x 30 USG (226 l) Max fuel imbalance (between tanks): 10.0 USG (37.8 l) AVGAS min grade 100LL (blue) or 100 FUEL caution light: both tanks below 14 USG Switch tank only if boostPump On/Boost			
Weight & Balance	MTOM: 1'542 Kg (3'400 lb) MLDM: 1'542 Kg (3'400 lb) MinimumFuelBurned BeforeLandWithMaxLoad 0.0 USG (0.0 l) Empty Mass: 1'085.5 Kg (2'393 lb) Max Useful Load: 456.5 Kg (1'006 lb) Full Fuel Payload: 212.5 Kg (468 lb) Max baggages: 59 Kg (130 lb)			
W&B Setting	Center of gravity: 138.40 ARM: Fuel: 154.9 Pilot/FrontPax: 143.5 RearPax: 180.0 Baggage: 208.0 EnvelopeData: 137.8/953.0 - 139.1/1'225.0 - 142.3/1'542.0 - 148.1/1'542.0 - 148.1/953.0			
Takeoff Distance (Ground roll in m) (3400 lb / 2900 lb)	PA: SL 0° C: 280 / 186 20° C: 325 / 216 40° C: 375 / 249 PA: 2000 0° C: 340 / 227 20° C: 396 / 263 40° C: 456 / 303 PA: 4000 0° C: 416 / 277 20° C: 484 / 322 40° C: 557 / 371 Headwind: -10% each 12kts Tailwind: +10% each 2kts Grass (dry/wet): +20%/+30%			
Range	85%, BestPower, 17.6 USG/h Endurance: 4.4 hours Range: 758 NM (SL) - 781 NM (8'000 ft) 75%, BestPower, 16.0 USG/h Endurance: 4.8 hours Range: 797 NM (SL) - 821 NM (8'000 ft) 65%, BestPower, 14.0 USG/h Endurance: 5.5 hours Range: 865 NM (SL) - 903 NM (12'000 ft)			

EQUIPMENT

PFD	Avidyne Integra FlightMax EXP5000 R6.2	S/N P/N: 530-00183—000_REV02
MFD	Avidyne Integra EX5000C R6.2.1 CMAX	530-00180—100 REV 04
GPS / Radio / NAV	Dual Garmin GNS430W (GPS WAAS/COM/NAV) – Precision: 1m H / 2m V Antenna - COM1+GPS: Top-center COM2: Underside-center 2 x NAV: Vertical stabilizer	
Transponder	Garmin GTX 330 - Mode S with ADS-B Out	Transponder Antenna: Nose underside (small) SW Ver. 4.06
ELT	406 Mhz	
Audio Panel	Garmin GMA340	
Oxygen System	Fixed Oxygen System: Precise Flight Inc. - ConstantFlowMeter: A4 or A5 Bottle: 77 cu - 12'/15'/18'000 ft (hrs): 1 pers.: 25/17/14 2 pers: 13/9/6 3 pers: 8/7/4 4 pers: 6/4/3 Cannulas: 0 - 18'000 ft - Mask until 25'000 ft - Capacity: 2'000 PSI - Check with Oxymeter (%SpO2 > 90)	
Autopilot	S-TEC 55X (Two-Axis autopilot and Altitude selector/alerter). Max 185 KIAS. < 95 KIAS set flaps 50%. Minimum engage altitude: 400 ft. Not permitted with 100% flaps and during TakeOff/Landing.	

	Disconnect in moderate or severe turbulence and when speed is less than V _{STALL} + 20%.
Stormscope	L-3 Avionics System WX500
Traffic Advisory System	L-3 Avionics System SkyWatch 497 Traffic Advisory System
Terrain	Honeywell KGP 560 Terrain Awareness/Warning System (TAWS)
Weather System	XM Satellite Weather System
Ice Protections System	Basic I.P.S. - Delcng Fluid: DTD 406B (British) 3.5 USG (13.2 L) – Duration: Normal/Maximum: 80/40 min
CAPS	Parachute (TBO 10 years, Last: January 2017). In case of emergency below 2000 ft AGL deploy it immediately. Minimum engage altitude: 400-500 ft AGL
Alternators and Batteries	Alternator 1: 28V – 60A – Main buses (FuelPump, TurnCoord.2, Attitude2, PFD2) Alternator 2: 28.75V – 20A - Essential buses (Engine instr., TurnCoordin.1, Attitude1, COM1, Avionics, PFD1, Bat2) Battery 1: 1x"12-cell" 24V 10A/h Battery 2: 2x12V=24V 7A/h - Duration: 30 min only PFD

ASSURANCE AND COVERAGE

Assurer	HowdenSky (Martin Accola). Expiration: End of March	No.: HS260311
Uses and Pilots	Private business and pleasure, Industrial AID and Rental/Club uses. Type rated PPL subject being individually checked by appointed flight instructor.	
Coverages	Liability Third Party: 12 mio, Hull agreed value: 320'000.- (PIC Deductible: 3'000.- only for partial loss) Pers. Accident (Death/PTD): 100'000/100'000 (PIC+PAX). Geographical limitations: Yes, details on site.	

MOVEMENT AND PARKING

Towbar	Towbar always in the airplane baggage area. Don't leave it in the hangar.
Parking	Always put the pitot cover and the nose air inlet cover on, inside and outside the hangar. Outside the hangar: use chocks. In case of wind risk, use anchor points for wing tiedowns.
Movements	Use Aircraft tug (with remote control) for movements into/from the hangar. Otherwise manually, using the towbar (pushing or pulling only on the <i>Wing base</i> or on the <i>Propeller base</i> (never from ogive).

MAINTENANCE, CONTROLS AND CHECKS

Cleaning	Clean the airplane after every flight using the specific products available in the hangar: " <i>blue liquid</i> " for fuselage and wings, " <i>pink liquid</i> " for windows, otherwise water only.
Oil type	< 4° C: SAE 30 or 10W-30 > 4° C: SAE 50. All temperatures: SAE 15W-50 or 20W-50.
Oil quantity	Capacity: 8 quarts (7.6l) Operation: min. 6 QTS, max. 7 QTS Always check oil quantity before each flight!!
Oil on board	Before each flight, assure to have the necessary Oil reserve in the baggage compartment. Never let empty oil boxes in the baggage compartment. Remember to fill in the <i>Oil form</i> located in the case.
Emergency key	An emergency airplane key is available inside the GPU compartment (unscrew the external small door).
Next inspection	Before each flight, remember to check the remaining hours available before the next inspection. Inform a member of the GVML committee in case of insufficient hours remaining.
Fuel Flow	During TakeOff check if the FF is 35-36 USG/h or more (reference pressure altitude 0 - 1'000ft).
Fuel measuring	The analog Fuel level indicators (left and right tank) are quite inaccurate, particularly when indicating low fuel. When departing with full tanks, the preferential indication is the <i>Fuel Flow (FF)</i> indicator on the MFD, instead. If tank is below ¼ capacity, pay attention to extreme turns.

USES AND BEST PRACTICES

Engine start (Warm / Hot start)	In case of "Warm" or "Hot" engine (restart between few minutes and after 2-3 hours) follow the standard checklist, without activating the "Boost Pump". After 5-6 secs the propeller will start, then immediately activate the Boost pump. Maintain RPM to max. 1'300 RPM for 10-20 secs, then reduce slowly to 1'000 RPM. In any case engage start-key during max. 10 sec., then wait minimum 30 sec. before retrying. After 3-4 negative tries, wait 15-20 minutes before restarting again.
Engine start (Cold start)	If engine doesn't start, it probably needs more <i>prime</i> (check FF). Prime only when you are really ready for ignition. With temperature below -7°C for 2 hours or more, engine <i>Pre-heating</i> is needed to prevent damage caused by frozen oil. Put the airplane in a hangar (min. 4 hours) and activate the pre-heating system.
Leaning	Taxi: Lean to "X" of " <i>miXture</i> ". RunUp, TakeOff, Climb <u>always</u> " <i>Mixture full rich</i> ". At Cruise level: power 75%, Manifold Pressure: 28.5 InHg, lean to FF 16.5 USG. Maintain Mixture full rich if CHT is 420° F or more. Best Power: 85% power or less (reach 1 st EGT peak. Than +75°F) Best Economy: 65% or less (reach Last EGT peak. Than +50°F)
GPU	BAT 1 set to ON (Bat 2 OFF) before connecting external GPU (needed to close the <i>relay</i>). Use the checklist.
Engine cold caution	During a fast/steep descent, do not cool down the engine too much, avoiding a possible thermal shock. A possible Go-around requires maximum power. Anticipate the Flap-configuration to favor the "back side of the power curve".
EGT e CHT	Maintain CHT (Cylinder Head Temperature) always below 420° F (better if below 380° F), particularly during TakeOff. Verify EGT rising (6x) during magnetos check (left and right).
Taxiing	Lean to "X" of " <i>miXture</i> ". Max. 1000 RPM. More power permitted only to start motion and for short time.
Refueling	Refueling in Lugano is at PIC's discretion prior flight, contacting C-Office or GND staff. Indicate Fuel Liter in the " <i>Rapporto di volo</i> ". After refueling on other aerodromes, join the receipt to the " <i>Rapporto di volo</i> " for reimbursement (write/highlight fuel quantity). Never refuel after the landing in Lugano (next PIC decides the amount of fuel, based on his/her W&B).
Check-list	The only permitted Check-list is the Cirrus SR22 TN G3 official one, available on the airplane or downloaded in SkyDemon. The use of a personalized check-list is at own risk.
Hour Meter	There's an "Hour-Meter" installed on the airplane. Its data is used for filling in the " <i>Rapporto di volo</i> " and for "billing" purposes. Track the start and end value for each single trip. It starts when speed is more than 30 KIAS.

All information on this card is given without any warranty. Refer in any case to the Cirrus SR22 TN G3 POH and others official documents.