

The 1983 Aerostar 602P









Piper Aircraft Corporation

1983

Specifications/Performance
Standard Equipment

Aerostar 602P



Aerostar 602P

Specifications

ENGINES

Manufacturer	Lycoming
Model	IO-540-AA1A5
Rating (hp @ rpm) Maximum Continuous	
Operating Power (MCOP)	290 BHP @ 2425 RPM
Recommended TBO (hrs.)	1800

WEIGHTS

Maximum Ramp Weight (lbs./kg)	6029/2734
Maximum Take-off Weight (lbs./kg)	6000/2721
Maximum Landing Weight (lbs./kg)	6000/2721
Standard Empty Weight (lbs./kg)	4125/1871
(Includes: unusable fuel, full operating fluids and full oil)	
Standard Useful Load (lbs./kg.)	1904/864

WING AREA AND LOADINGS

Wing Area (ft. ² /m ²)	178/16.5
Wing Loading (lb./ft. ²)/(kg./m ²)	33.7/164.5
Power Loading (lb./hp)/(kg./hp)	10.3/4.7

DIMENSIONS

Wing Span (ft./m)	36.7/11.2
Length (ft./m)	34.8/10.6
Height (ft./m)	12.1/3.7
Cabin Length (in./cm)	119.5/303.5
Cabin Width (in./cm.)	45.5/115.6
Cabin Height (in./cm.)	46.5/118.1
Passenger Door Size (in./cm)	28 x 45/71.1 x 114.3
Luggage Door Size (in./cm.)	22 x 24/55.9 x 61.0

USABLE FUEL (gal./l)

165.5/626.5

OIL CAPACITY (gal./eng.) (L/eng)

3/11.4

BAGGAGE

Luggage Capacity (lbs./kg)	240/108.9
Luggage Space (ft. ³ /m ³)	30/85

Performance

MAXIMUM SPEED (MCOP) (kts.)/(km/h)	262/485
(TAS at Average Cruise Weight)	

CRUISING SPEEDS (Best Power)

(TAS at Average Cruise Weight of 5500 lbs.)

Power	Cruise Altitude	Cruise Speed
%	(ft./m)	(kts)/(km/h)
75	25,000/7620	247/457
75	23,000/7010	242/448
75	15,000/4572	226/419
65	25,000/7620	228/422
65	23,000/7010	224/415
65	15,000/4572	210/389
55	25,000/7620	203/376
55	23,000/7010	201/372
55	15,000/4572	191/354

CRUISE RANGE (Best Economy)

for 165.5 Gallons Usable (626.5 Liters)

Includes Allowance for Fuel Used During Start, Taxi, Take-off Climb, Descent and a 45 Minute Reserve at Economy Fuel Mixture.

Power	Cruise Altitude	Range
%	(ft./m)	(nm/km)
65	15,000/4572	1094/2026
65	23,000/7010	1098/2034
65	25,000/7620	1078/1997
55	15,000/4572	1143/2117
55	23,000/7010	1137/2106
55	25,000/7620	1112/2059

RATE OF CLIMB at 6000 lbs. (2721 kg)

Two Engines (MCOP) - Sea Level (fpm/mpm)	1755/535
Single Engine (MCOP) - Sea Level (fpm/mpm)	302/92

RATE OF CLIMB at 5000 lbs. (2268 kg)

Two Engines (MCOP) - Sea Level (fpm/mpm)	2342/714
Single Engine (MCOP) - Sea Level (fpm/mpm)	583/178

STALL SPEEDS - 6000 lbs. (2721 kg)

Power off, Flaps Down (kts.) (km/h) IAS	77/143
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SERVICE CEILING 6000 lbs. (2721 kg)

Two Engines (MCOP) (ft./m)	28,000/8534
Single Engine (MCOP) (ft./m)	12,900/3932
Single Engine (MCOP) (ft./m) @ 5000 lbs. (2268 kg)	20,750/6325

TAKE-OFF DISTANCE

Normal procedure at 6000 lbs. (2721 kg)	
Ground Run (ft./m)	1800/549
Total distance over 50-ft. obstacle (ft./m)	2250/686
Normal procedure at 5000 lbs. (2268 kg)	
Ground Run (ft./m)	1350/411
Total distance over 50 ft. obstacle (ft./m)	1688/515

LANDING DISTANCE - Flaps 45°

Normal procedure at 6000 lbs. (2721 kg)	
Ground Roll (ft./m)	1217/371
Total distance over 50-ft. obstacle (ft./m)	2076/633
Normal procedure at 5000 lbs. (2268 kg)	
Ground Roll (ft./m)	1022/312
Total distance over 50-ft. obstacle (ft./m)	1809/551

Standard Equipment

POWER PLANT AND ACCESSORIES

Two Lycoming 290 hp IO-540-AA1A5-1,800 hour-TBO Engines
Complete Internal Corrosion Proofing
Dual Automatic Turbo-Charger System
Dual Ignition System with 1200 Series Magnetos
Ground Service Electrical Receptacle (Ground APU Receptacle)
Hydraulic Pump
Injection Type Fuel System
Long Range Fuel System — 165.5 Gallons Usable Fuel
Overvoltage Protector
Two Electric Auxiliary Fuel Pumps
Two Engine Driven Gyro Pressure Pumps
Two Engine Driven Variable Orifice Fuel Pumps
Two Bleed Air Coolers
Two Fuel Strainers
Two Full Feathering Constant Speed Hartzell 3-Bladed 78" Diameter Propellers
Two Full Flow Oil Filters
Two High Capacity Oil Coolers
Two Sonic Venturi Flow Limiters
Twenty-Four Volt DC, 24 Ampere-Hour Battery System
Two 70 AMP Alternators

FLIGHT DECK

Airspeed Indicator
Alternate Static Source
Alternator Failure Warning Lights
Auxiliary Fuel Pump Switches
Cabin Heater, push-pull heat controls
Capacitance Type Fuel Quantity System
Complete Circuit Breaker Panel (resettable type push-pull breaker)
Complete Dual Flight Controls including Copilot's Brakes
Fuel Pressure Gauge
Dual Exhaust Temperature Gauge
Dual Fuel Flow Gauges, Transducer Type
Dual Fuel Selectors w/Off, On, and Crossfeed
Dual Gyro Pressure Gauge
Dual Manifold Pressure Gauge
Dual Tachometer
Dual 3-Way Engine Gauges: Oil Temperature, Oil Pressure and Cylinder Head Temperature
Eight Day Clock
Heater Fail Light
Annunciator Panel
Crossfeed Annunciator
Electric Elevator Trim and Panel Mounted Indicator Gauge
Electric Rudder Trim and Panel Mounted Indicator Gauge
Electro-Hydraulic Nose Wheel Steering and Shimmy Damper

Flight Hour Meter
Four Landing Gear Position Indicator Lights
Full Engine Controls: Throttles, Propellers, and Mixtures
High Visibility Rocker Type Electrical Switches
Hydraulic Landing Gear Control
Hydraulic Shut Off Switch
Hydraulic Wing Flap Control with Panel Mounted Indicator
Internally Lighted Magnetic Compass
Low Fuel Warning System
Map Light, Dual Intensity
Outside Air Temperature Gauge
Parking Brake
Pilot and Copilot Microphone Jacks
Pilot and Copilot Headset Jacks
Radio Call Plaque
Radio Light Dimmer Control
Rate of Climb Indicator (VSI)
Safety Padded Glare Shield
Sensitive Altimeter
Three-inch Attitude and Directional Gyros (pneumatic)
Tilted Instrument Panel
Turn Coordinator
Variable Intensity Red and White Instrument Panel Lighting
Volt-Ammeter with Individual Alternator Load Selection
Windshield Defroster
Pilot's Check List

INTERIOR

Aircraft Log Book
Airplane Flight Manual
Carpeted and Lighted Baggage Compartment
Deluxe Curtains
Double-Pane Windows
Six Velour Seats w/Armrests
Pilot & Copilot Inertia Reel Shoulder Harness
Full Reclining Passenger Seats
Individual Cabin Air Ventilators
Individual Passenger Reading Lights
Key Locked Baggage Compartment
Matching Velour/Vinyl Side Panels
Pilot and Copilot Eyebrow Windows
Pilot and Copilot Floor Scuff Plates
Pilot and Copilot Sun Visors
Super Soundproofing
Thermostatically Controlled Variable Cabin Heat
Tinted Passenger Windows
Emergency Exit
Two Engine Log Books
Ventilation Fan
Weight and Balance Plotter
Wall to Wall Deep-Pile Color Coordinated Carpet

Standard Equipment Continued

EXTERIOR

- Aircraft Tow Bar
- Deluxe Polyurethane Paint
- Four Exterior Colors Standard, Base Color, Plus Three Trim Colors
- Dual Landing/Taxi Lights
- Emergency Locator Transmitter (ELT)
- Heated Pitot
- Heavy Duty Dual Caliper Disc Brakes
- Hydraulic Fowler Flaps
- Hydraulic Retractable Landing Gear
- Steerable Nose Wheel
- 3 Convenient Quick Drain Fuel Strainers
- 3 Light Strobe System
- 3 Navigation Lights

PRESSURIZATION SYSTEM

- Cabin Altitude and Differential Pressure Indicator
- Cabin Rate of Climb Indicator
- Cabin Door Pressure Seal
- Cabin Outflow Pressure-Regulating Valve
- Cabin Pressure Safety and Dump Valve
- Cabin Water Drain System
- Emergency Exit Pressure Seal
- Variable Rate Cabin Pressure Controller
- 4.25 psi Pressurization System
- Cabin Altitude Warning Light

PRODUCT SUPPORT

- Piper Warranty Form
- Piper Service Center Directory
- Inspection Form

The performance information is based on an airplane flown at gross weight under standard sea level atmospheric conditions except as noted and based on the latest data available at the time of publication approval. Take-off and landing performance is optimum. Actual performance depends on pilot techniques, operating surfaces and other factors. It is the responsibility of the pilot to determine that all operations are conducted within approved limits of design gross weight, center of gravity, and in accordance with the FAA-approved Airplane Flight Manual which is the only official source of operating parameters and performance information.


In accordance with GAMA format, range provides for taxi, take-off, climb at MCP, cruise at stated mixture and descent with 45-minute reserve at maximum range power. Empty weight includes unusable fuel, full operating fluids and full oil.


Piper Aircraft Corporation reserves the right to make changes in specifications, materials, equipment or prices at any time without prior notice or to discontinue models as required.

Your Piper Aerostar Dealer has listings of a wide variety of optional equipment and avionics. Items most frequently chosen by owners are packaged for factory installation.



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 **MEMBER OF GAMA**