

# Alpha 160Ai

## Power Plant & Accessories

- Lycoming AEIO-320-D2B 160hp

## Propeller

- Sensenich Fixed Pitch –74DM6S5-2-64

## Engine Monitoring

- Voltage/Amps
- Oil Pressure/Temperature
- Fuel Pressure
- CHT, OAT

## Fuel System

- Fuel Tank 160 Ltr with inverted flight system
- Quick Drain Fuel Valve
- Engine Driven Fuel Pump
- Electric Fuel Pump - Boost
- Electric Fuel Quantity Gauge
- Fuel Shutoff Valve
- Fuel Draining Tool

## Oil System

- Inverted flight system
- Christen Oil separator
- Remote Spin On Oil Filter

## Electrical System

- 14 volt System, Dry Battery
- Ignition & Starter Switch
- Master Switch
- Avionics Master Switch
- Circuit Breakers, Pull Type, Trip-Free
- 14v Auxiliary Power Outlet
- Ground Service Plug

## Annunciator Lights For

- Low Fuel Pressure
- Low Fuel Level
- Low Oil Pressure
- Charge
- Starter Engaged
- Flaps Down
- Plus 2 Spare

## Flight Instruments

- Gyro Package: Artificial Horizon, Direction Indicator
- Sensitive Altimeter
- Airspeed Indicator
- Vertical Speed Indicator
- Magnetic Compass
- Turn Coordinator
- Stall Warning Horn
- G Meter

## Avionics –Standard Equipment

- Garmin SL30 NAV/COM
- Garmin GI 106 CDI
- Garmin GTX 328 Transponder, Mode S

*Customer Specific Options Available*

## Interior

- Dual Swivel-Type Fresh Air Vents, Adjustable
- Cabin Heating System
- Windscreen Defrost
- Instrument & Cabin Lights
- Two 5 Point Seat Harnesses
- Stereo Headset Sockets
- Fabric Seat Cushions / Interior
- Map & Storage Pockets
- 75 lb Baggage Bay
- 406 type Emergency Locator Transmitter

## Controls

- Dual Stick Flight Controls
- Dual Throttle Controls
- Adjustable fore & aft seats
- Pilots & Co-Pilots Toe Brakes
- Parking Brake
- Flaps –Electric, 3 position with Indicator
- Pitch Trim

## Airframe Features

- Semi Monocoque Aluminium Alloy Construction
- Full & comprehensive anti-corrosion treatment
- Oleo Pneumatic Landing Gear
- Cleveland Brakes
- Steerable nose wheel, self centering in flight

## Exterior

- Aircraft Tie Down Points
- CAM-LOC™ Cowl Fastenings
- Large forward sliding tinted Canopy
- Landing/Taxi Lights
- Anti-collision/Navigation Lights
- White Paint Finish with Two (2) standard trim colours

## Publications

- Service Manuals
- Aircraft Flight Manual

## Optional Equipment Available includes

- Pitot Heating System
- Aircraft tow bar

## Description

- Powerplant ..... 160Hp - Lycoming AEIO-320
- Propeller.....Sensenich –Fixed Pitch
- Wing Span ..... 8.33m (27ft 4in)
- Height..... 2.13m (7ft)
- Length ..... 7.10m (23ft 3in)
- Wing Area ..... 13m<sup>2</sup> (140sq ft)
- Empty Weight (Typical) ..... 590kg (varies by Equipment spec)
- Maximum AUW ..... 900kg\*
- \* Limited to 800 kg in aerobatic category
- Fuel Capacity 160ltr Limited to 120ltrs in Aerobatic category

## Performance

- Cruise ISA SL @ MAUW 75% Power 120 KIAS
- VY 78 KIAS 1000 FPM @ MAUW
- VS Full Flap MAUW 51 KIAS
- Range/Endurance @ 5500' 65% Pwr ..... > 620nm/4.75hrs (Nil Reserve)
- Aerobatic Limitations..... **+6 / -3 G**

## Alpha Aviation Manufacturing Limited

Steele Road, Hamilton Airport, Hamilton 3282, New Zealand  
PH + 64 7 843 9877 FAX + 64 7 929 2878 EMAIL: [sales@alphaaviation.co.nz](mailto:sales@alphaaviation.co.nz)  
WEBSITE: [www.alphaaviation.co.nz](http://www.alphaaviation.co.nz)

Part or all of the information contained within this publication may change without prior notification