S-TEC 5000 AUTOPILOT

DIGITAL FLIGHT CONTROL SYSTEM

DIGITAL ATTITUDE BASED AUTOPILOT

Unlike traditional legacy autopilots that rely on roll information from a turn coordinator, and pitch information from a pressure transducer, the S-TEC 5000 makes precise corrections based on very accurate AHRS data. This is most evident on windy days where the wind isn't blowing in alignment with your approach path. The digital S-TEC 5000 will hold the localizer and glideslope steadily down to Category I minimums.

COMPATABILITY

The S-TEC 5000 is a 3-Axis Digital Flight Control System, with standard Automatic Pitch Trim. Whether you have advanced glass EFIS displays or the traditional 6-pack steam gauges, the S-TEC 5000 supports a wide varitey of cockpit setups. An AHRS is built into the S-TEC 5000 and is utilized to drive the precise movements of the servos in aircraft lacking a digital EFIS display.

OBSOLESCENCE UPGRADE

The S-TEC 5000 provides an economical option to upgrade current older obsolete Part 23 and Part 25 autopilots with improved in-flight performance from modern digital avionics. In addition to a 2-year new product warranty, the capabilities of the S-TEC 5000 can add to the aircraft's mission efficiency and lower its cost of operations. The S-TEC 5000 design is based on Genesys' S-TEC autopilot legacy experience, with 1000's of autopilots installed and in operation. This legacy provides proven performance and reliability backed up by the Genesys Aerosystems' product support team for personalized attention.

NEXTGEN AIRSPACE OPERATIONS

The S-TEC 5000 was designed with modern airspace operations in mind. Today's aircraft operate in crowded airspaces and need to take advantage of the requirements of modern airspace navigation and approach procedures for improved operations. The S-TEC 5000 meets the requirements of RVSM operations and able to operate using WAAS GPS Satellite Navigation and Approaches and RNP procedues in addition to traditional legacy navigation and approach procedures and equipment.

Precise Performance.
Proven Experience.
Personalized Attention.

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FEATURES

The following are some key features of the S-TEC 5000 autopilot:

- Altitude Preselect & Hold w/Autotrim
- Digital Vertical Speed Command
- Yaw Damper and Turn Coordination
- Course Intercept Capability
- HDG to NAV Intercept - HDG/NAV & HDG/APR
- VOR/LOC/GS/REV/GPS Course
- Flight Director
- Pitch Steering
- Control Wheel Steering
- GPS Steering (GPSS)
- Envelope Protection and Alerting

- Vertical Navigation (VNV)*
- Heading Control
- Vertical Speed Control (VS)
- Indicated Airspeed Control (IAS)
- Autopilot Mode Annunciations
- Voice Annunciations
- All Axis Trim Control
- Straight and Level Recovery (LVL)
- Go Around (GA) and Take-off Go Around (TOGA)
- Half Bank
- RVSM Compatible

DIMENSIONS

- Width: 6.25" (159mm)
- Height: 1.45" (37mm)
- Depth: 9" (229mm)

WEIGHT

- 2.6 lbs (1.18 kg) (Autopilot only)

HARDWARE

- RTCA DO-160G to meet TSO-C198
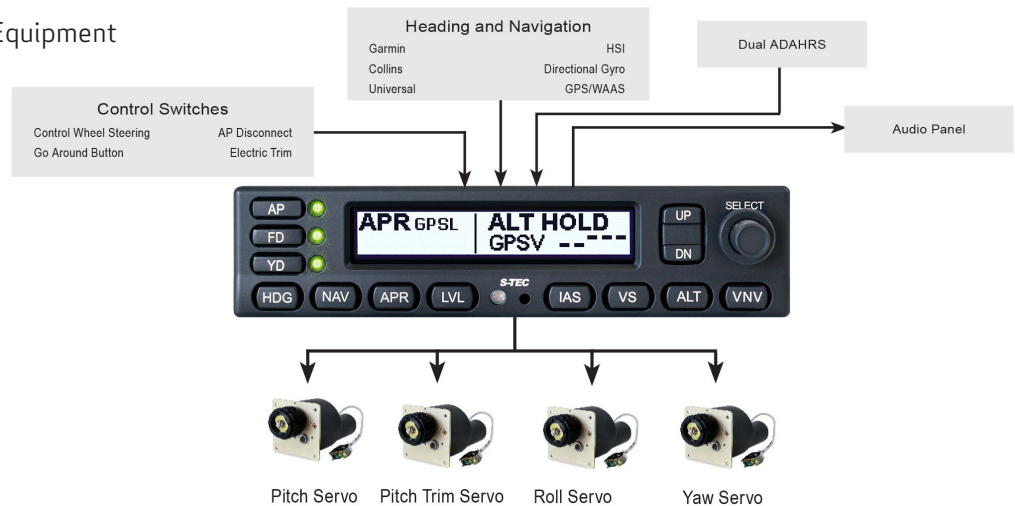
SOFTWARE

- RTCA DO-178C Level A

TSO's

- TSO-C198 Automatic Flight Guidance and Control System Equipment (AFGCS)
- ETSO-C9c Automatic Pilots
- ETSO-C52b Flight Director Equipment

*compatible EFIS and GPS equipment required

Pitch Servo   Pitch Trim Servo   Roll Servo   Yaw Servo

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