

Century Avionics - G600 upgrade for a King Air 200

By Clinton Farla

Century Avionics was privileged to upgrade the avionics of this Beechcraft King Air 200. The reason for the upgrade of the ageing avionics was multifaceted and included reduced reliability, increased maintenance costs and unforeseen downtime impacts on an operation that relies on the expeditious dispatch of a possible medivac flights or charter operations.

Through consultation with the customer an avionics suite was designed for the best functionality, optimum reliability and after installation support that met the customer's operational requirements and budget.

Planning meetings to ensure the installation of the new systems could take place as efficiently and effectively to minimise the total downtime of the aircraft at the onset of the project were held between the installations, certifications and sales departments. A graphic electronic layout was presented to the customer in order to gain an idea of how the final product would aesthetically look and ergonomically function like once completed.

After receiving the final go-ahead from the client, the installation process started by removing the old wiring harnesses and installing the newly manufactured harnesses of the Garmin G600 MFD/PFD and dual touchscreen NAV/COM/GPS, dual transponders, Solid State Radar, Traffic system and electronic standby instrument.

The Genesys Aerosystems digital autopilot Intelli 2100 is STCd for the King Air 200 and requires dual AHRS inputs for successful interface and operation. The wiring harnesses were laser printed and premanufactured by Century Avionics and routed into the aircraft in a safe, neat and tidy fashion giving the area behind the panel a professional look.

Century Avionics chooses mainly Garmin equipment due to the fact that Garmin is the market leader in general aviation as well as the system's outstanding functionality and superior after sales support.

The new avionics installed in the aircraft consisted of:

- Garmin G-600 standard left side PFD/MFD LRU kit
- Garmin GAD-43e upgraded gyro adapter
- Garmin GMA-35c Garmin remote Audio Panel / Marker Beacon / Intercom
- Garmin GTN-750 GPS/NAV/COM
- Garmin GTN-650 GPS/NAV/COM
- Garmin GWX-70 Weather Radar 10 inch
- Garmin GTX-345R Remote Digital ADS-B 'In-Out' Transponder
- Garmin GTX-335R Remote Digital ADS-B 'Out' Transponder
- Garmin GTS-825 traffic system with dual directional antenna
- Garmin FS-210 Garmin Flight Stream 210 Bluetooth
- ACK Technologies A-30.9 Serial Altitude Encoder 42k Ft
- L3 Com ESI-500 electronic standby instrument and magnetometer

A complete integration test on the wiring according to the installation manuals of each LRU was conducted to ensure that the full functionality of the complete system was achieved before the newly manufactured, painted and labelled instrument panel and interior was reassembled. As with all installations that Century Avionics completes, the installation of the new systems was undertaken with extreme care and pride to ensure above all flight safety.

One of the benefits of an avionics upgrade by Century Avionics is the ability to also provide familiarisation training to the customers on our in-house demonstration training Garmin G600 and GTN series avionics console to ensure that the pilots are knowledgeable on the operation and have sufficient knowledge to operate the systems, thereby increasing the flight safety of the pilot, passengers and aircraft. It enables the pilot to use the new avionics system to its full potential and ability.

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Century Avionics - King Air B200 panel



Inside aircraft