

Blue Avionics' BA-440 system certified by Flying Colours on their ADS-B OUT DO-260B STC for Challenger 300 Aircraft

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CHESTER SPRINGS, PA – The Blue Avionics BA-440 Router/Filter provides Flying Colours with the transponder interface and Automatic Dependent Surveillance-Broadcast (ADS-B) system monitoring for their supplemental type certificates (STCs) of ADS-B Out solution on Bombardier Challenger 300 aircraft with Rockwell Collins Pro Line 21 flight decks with TDR-94D (-500 series) transponders.

The pairing of Blue Avionics BA-440 Router/Filter, Collins GPS-4000S SBAS GPS, and TDR-94D (-500 Series) Transponder certified by Flying Colours STC provides Challenger 300 operators with a comparable solution previously certified by Flying Colours on CL-604 and CL-605 aircraft. These three ADS-B 260B solutions are fully compliant with both Federal Aviation Administration (FAA) and European Aviation Safety Agency (EASA) regulatory requirements to meet the January 2020 mandate deadline for ADS-B Out DO-260B retrofits.

"Flying Colours Corp. has chosen the BA-440 Router/Filter for our Challenger series ADS-B Out solutions based on its proven track record and robust capabilities beyond ADS-B functionality. We feel that the BA-440 is the only unit currently on the market that provides for a fully compliant ADS-B Out DO-260B solution," said Marty Buehrlen, Lead Electrical Engineer, Flying Colours Corp.

Flying Colours' Director of Sales, Kevin Kliethermes, says, "Our Bombardier Challenger 300, CL-604 and CL-605 ADS-B 260B STC solutions are competitively priced with perceptive annunciations and intuitive pilot failure procedures thus making the BA-440 the best value and most comprehensive solution in the market today. Flying Colours developed these STCs to support our current and future customer base, however, we will make our STCs available to other installers to support their customers as well. Our Challenger FAA STCs will be followed up with both EASA and Transport Canada validations/STCs."

Blue Avionics Program Director, Bill Smith, notes, "The BA-440 system provides the best value for a fully compliant ADS-B Out solution for the owners and operators."

The value of the BA-440 system is in its flexibility and capability to perform more than just a single ADS-B function such as turning on a light. The BA-440 system provides the most comprehensive support of ADS-B "as noted below". Yet while concurrently, it is providing future support for NextGen systems requiring an ARINC 429 interface and/or discrete combinations by simply using the installed BA-440 system for ADS-B with only an update to the installed configuration plug's personality table.

- 1) Fully Compliant to AC20-165A and DO-260B Monitoring and Annunciations

- 2) Certified per FAA, EASA, and CASA ADS-B Out Requirements
- 3) On-side and Cross-side monitoring of System integrity of each ADS-B Component, mode status, Off/Missing digital ARINC data.
- 4) Device Failures for all equipment including self-monitoring Device failure using DO-178B DAL B software
- 5) Inhibits Annunciators if system is in standby mode.
- 6) Fully Compliant to AC 25.1309-1A Safety Requirements – DAL B monitoring of DAL B systems
- 7) Monitor and complaint with ADS-B monitor requirements of TSO-C166b and TSO-145C
- 8) Required to Interface the Honeywell GNSSU to the Collins TDR-94D (-500 series) Transponder for DO-260B compliant ADS-B Out.
- 9) Provides INS filtering to the TDR-94D (400/500 series) Transponders

The BA-440 can be configured to handle a variety of ARINC 429 and discrete functionality inclusive and exclusive of ADS-B. For more information contact Blue Avionics at:
(+1.610.458.3763 / Blue.Sales@BlueAvionics.com)

For more information on the use of the Flying Colours CL-300, CL-604 and CL-605 ADS-B 260B STCs contact Kevin Kliethermes at:
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About Blue Avionics

Blue Avionics designs, builds, and manufactures, certified, specialized function, custom, and highly configurable multifunctional / multipurpose Avionics equipment, Aircraft upgrade Harnesses, and mechanical mounting parts. Blue Avionics has FAA certified production centers in New York and Maryland with headquarters located in Pennsylvania. Blue Avionics is one of the first Avionics companies to certify a highly configurable Multipurpose Avionics Unit (the BA-440 Router/Filter) that can be used for many different functions in an aircraft with DO-178B / DO-254 DAL B integrity and safety. Call or email us to find out more.

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