



TPR-901-205/225 TRANSPONDERS

MEETING THE MOST STRINGENT ADS-B MANDATES

Many regions around the world have mandated the operation of Mode S transponders that are compliant to DO-260, DO-260A or DO-260B to meet the needs of ADS-B Out in their airspace. The Collins Aerospace TPR-901-205/225 transponders (for Boeing and Airbus platforms, respectively) are the most reliable and capable available.

Collins Aerospace has a long history with transponder development. The TPR-901 was created in 2007 to satisfy the new Mode S Elementary Surveillance functionality required for operation in Europe. With the emergence of DO-260B, Collins Aerospace has created a software-only upgrade to the TPR-901. It provides a quick and affordable way to comply with mandates in Europe and the United States.

The TPR-901 also can be used as a drop-in replacement to other federated transponders that don't comply with DO-260B, without changing the antenna or aircraft wiring.

KEY FEATURES

- TSO-C112e and TSO-C166b compliant
- DO-178, levels B and D
- Qualified to DO-160E
- 24-bit ICAO aircraft address
- Transponder capability report, including SI code capability
- Altitude reporting
- Automatic reporting of aircraft identification (flight ID)
- Flight status (airborne/ground)

The TPR-901 is certified on all Boeing and Airbus platforms and is available to meet your surveillance needs.



SURVEILLANCE REQUIREMENTS ARE EMERGING IN NEARLY EVERY REGION OF THE WORLD

The TPR-901 has been certified with various Traffic Collision and Avoidance Systems (TCASs) as well as various GNSS position sources. It provides the integration capability necessary to meet mandate requirements.

Additionally, the TPR-901, coupled with the Collins Aerospace TTR-2100 TCAS computer, provides the basis for advanced ADS-B features. These include ADS-B In traffic applications such as:

- AIRB – Airborne display of CDTI (Cockpit Display of Traffic Information)
- VSA – Visual Separation on Approach
- CAVS – CDTI Assisted Visual Separation
- FIM – Flight Deck Interval Management

The Collins Aerospace ADS-B In roadmap includes advanced surface operations, closely spaced parallel approach operations and architectural changes to accommodate ACAS-X and hybrid surveillance.

Many countries and regions (e.g., Australia, Canada, China and Indonesia) are now using ADS-B Out (DO-260) to provide separation services. The United States and European Union have mandated the more stringent DO-260B requirements, with airspace modernization plans that will take advantage of advanced surveillance features such as ADS-B In. Be ready for these emerging airspace requirements with a reliable, compliant transponder that integrates well with all other associated equipment.

ADS-B In traffic applications provide the following advantages:

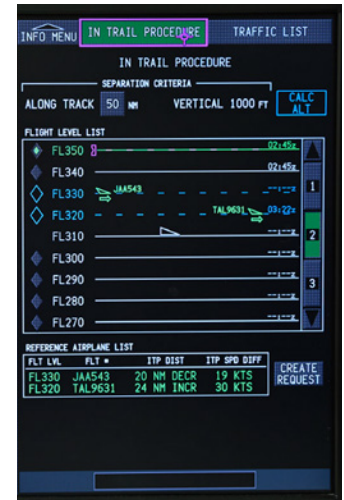
- Enhanced situational awareness during flight and ground operations
- Increased operational efficiency in terminal airspace with improved separation and routing
- Increased efficiency during ground movement

AWARD-WINNING CUSTOMER SERVICE

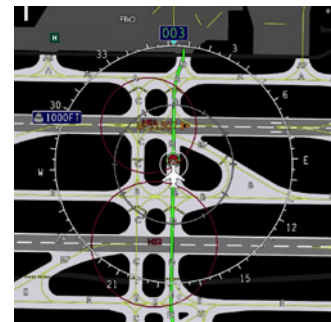
You can be sure that your equipment will be backed by Collins Aerospace’s award-winning customer service and support.



CDTI



ITP



Advanced surface operations

Specifications subject to change without notice.



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