

# THE TT31 1090ES ADS-B OUT TRANSPONDER



## 5 reasons to buy

- Retrofit – ‘plug and play’ installation
- Great functionality and performance
- 2020 ADS-B, FAA TSO approved, mandate ready today!
- TIS traffic capabilities
- Low power consumption

Replacing your old transponder or updating your aircraft avionics? If so, the TT31 should be your panel mount transponder of choice. Fixed wing and rotary pilots around the world have selected the TT31 for its superior features, great value and superb support.

The TT31 is the easiest upgrade to the popular KT76A and KT78A, with a plug and play capability this transponder gets to work straight out of the box.

### 2020 ADS-B Compliance Today

As a fully capable 1090 MHz Extended Squitter ADS-B Out transponder, the TT31 is the first transponder in the world that's TSO approved by the FAA to C166b. This makes the TT31 compliant with the latest ADS-B requirements and ensures it is fit for the future.

The TT31 also provides data link support for TIS traffic. Linked to a suitable display it can show TIS position information and aircraft traffic which is broadcast from TIS ground stations (where available).

### The TT31 low power, high performance

The transponder has a bright and easy to read backlit display. Operation is simple via a conventional rotary knob enabling rapid selection of Squawk code and Flight ID. The TT31 comes with additional features that include a stop watch, flight timer and altitude alarm.

# TRIG

The TT31 has the lowest power consumption in its class (half that of most legacy transponders), it needs no warm up time and is ready to work as soon as you strap in. The reliability of an aircraft's avionics can be adversely affected by excessive heat. The TT31's low power consumption produces less heat in your avionics stack and significantly reduces loading on your aircraft's electrical system. This efficiency has no impact on performance; as a consequence fitting a TT31 actually enhances the reliability of your entire avionics system.

### Flexible Installation

The TT31 is a great new or retro-fit solution; it operates at 240 watts from a supply voltage of either 14 or 28 volts. Installation is straightforward without any special configuration or dropper resistors.

The TT31 can use either a parallel or serial altitude encoder, and can even act as a serializer for your GPS baro-aiding input.

### The TT31 conventional panel mount transponder - the class leader

- Class leading performance with the easiest transponder upgrade path for legacy units.
- The TT31 is the ideal basis for building your aircraft's ADS-B system. To receive a full ADS-B In service you must first have a certified ADS-B Out signal, the TT31 generates a compliant 1090ES ADS-B Out.
- Fitting a TT31 Mode S transponder increases your visibility to other airspace users, enhancing your flight safety.

#### Support

We provide a two year worldwide warranty through our Approved Trig Dealer network.

#### How to buy

We always recommend that you buy your Trig products through an Approved Trig Dealer. To find a dealer go to [www.trig-avionics.com](http://www.trig-avionics.com)



TT31 1090ES ADS-B Out Transponder	
Type	Transponder Class 1 Mode S Level 2 els ADS-B Class B1S
Certification	ETSO C166A, 2C112B and TSO C112, C166b
Compliance	ED-73B, DO-160E, DO-178B Level B, DO181C, DO-260B Class B1S, DO-254 Level C
Supply Voltage (DC)	10 – 33 V
Typical Current Consumption (at 14V)	Idle: 0.22 A, Active: 0.45 A
Nominal Transmitter Power	240 W at connector
Operating Temperature	-20°C to +70°C
Cooling Requirement	No fan required
Weight	2.8 lbs
Dimensions	In tray - H 1.57 x W 6.30 x L 9.4 inches



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