

THE TT23 AND TT23G MODE S TRANSPONDER



5 Reasons To Buy

- Smallest, lightest solution
- Now available with built-in GPS
- 1090ES ADS-B Out
- Low power consumption, battery operable
- Built-in altitude encoder

Smaller, Lighter, GPS, ADS-B Out, Certified

Simple to install, simple to use – The TT23 series is the next generation of Trig's compact Transponder line.

The new design features a smaller and lighter transceiver than its predecessors, while still boasting a nominal power output of 250 watts.

Now available with built-in GPS for the first time, the TT23G model offers a fully integrated ADS-B Out solution, ideally suited for use in light sport, gliders and GA aircraft where panel space, weight, and simplified installation are paramount.

The TT23 is a fully certified Class 1, Mode S transponder with ADS-B Out, suitable for both VFR and IFR flight. Its compact form factor is ideal for aircraft with limited panel space.

Available in Two Versions

The **TT23G** has a built-in GPS receiver - the ideal choice for pilots seeking an integrated ADS-B Out solution. The TT23G is perfect for experimental and light sport aircraft that need to meet the requirements for ADS-B Out in the United States. In other markets where ADS-B is voluntary, the TT23G is a perfect solution for enhancing conspicuity and safety.

The **TT23** can also be used as an ADS-B out solution when connected to a compatible external GPS. There will be an STC available to integrate with popular third-party navigators, as well as the Trig TN70 remote position source. For those that do not intend to equip with ADS-B out, the TT23 model is a high-quality, modern transponder with easy configuration options that make it suitable for a broad range of GA applications.

Compact Installation

The TT23 transponder is a two part, space-efficient solution, with a separate control head and transponder box. Well-known for its compact size, the TC20 control head fits into a 57mm round hole, with the option of using an even smaller compact mount hole. When fitted, the depth of the controller is only 54mm, and connected to a wiring harness the depth is still only 85mm. The separate transponder box can be mounted anywhere within the airframe. The TC20 also has a built-in altitude encoder, saving additional room and weight.

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 trig-avionics.com

Key Features

Compact and Lightweight Design: Transponder box is more than 15% (50g / 1.7oz) lighter than its predecessor. The TT23 is ideal for aircraft with limited panel space and weight constraints.

ADS-B Out Capable: The TT23 series supports ADS-B Out, enhancing situational awareness and meeting future airspace requirements.

Available with Built-In GPS: No need for an external GPS for ADS-B Out capability with the TT23G model.

Certified Performance: The TT23 series is certified for IFR and VFR flight, meeting EASA ETSO and FAA TSO standards, ensuring compliance with international aviation regulations.

Integrated Altitude Encoder: TT23 models include an integrated altitude encoder, simplifying installation and reducing the need for additional equipment.

User-Friendly Interface: Equipped with a clear, bright display and intuitive controls, the TT23 series ensures ease of operation in various lighting conditions.



	TT23	TT23G
Type	Transponder Class 1 Mode S level 2els ADS-B Class B1S	
Certification	ETSO C88a, C112e, 2C112b, C166b TSO C88b, C112c, approved for IFR and VFR flight	ETSO C88a, C112e, 2C112b, C166b, C199 TSO C88b, C112c, approved for IFR and VFR flight
Compliance	ED-73E, ED-14G, DO-160G, DO-260B, DO-178C, DO-178B, DO-254 Level C	
Supply voltage (DC)	11-33 V	
Typical consumption (at 14v)	idle: 0.15 A active: 0.28 A	idle: 0.15A active: 0.34 A
Nominal Transmitter power	250 W at connector	
Operating temperature	For the controller -20°C to +55°C / For the transponder -40°C to +70°C	
Cooling requirement	No fan required	
Weight (hardware back box)	300 g / 0.66 lbs	315g / 0.69 lbs
Weight (TC20 control head)	90g / 0.19 lbs	
Dimensions (mm)	Controller: H 44 x W 63 x L 54 mm / Transponder in tray: H 37 x W 64 x L 149 mm	
Dimensions (inches)	Controller: H 1.8 x W 2.4 x L 2.1 inches / Transponder in tray: H 1.5 x W 2.6 x L 5.9 inches	