

# 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](http://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                                                              | ETSO C88a, C112e, 2C112b, C166b, C199            |
|                              | TSO C88b, C112c, approved for IFR and VFR flight                                             | 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 |                                                  |