

TN72 GPS RECEIVER



5 reasons to buy

- GPS receiver – certified to TSO-C199
- ADS-B Out – enhances visibility and safety
- Collision avoidance
(uses non zero quality indicators)
- Enables live tracking of aircraft
- Low cost and light weight

The affordable position source for your Trig transponder

Pilots are increasingly realising the benefits of ADS-B (Automatic Dependant Surveillance Broadcast). This technology is built into every Trig transponder. By adding GPS information to the transponder output, this gives a step change in surveillance capability. Once installed ADS-B equipment transmits your aircraft's precise location directly to other ADS-B equipped aircraft - improving your electronic visibility and safety.

In countries where ADS-B airspace is mandated, full compliance usually requires more expensive TSO-C145 GPS technology. In all non-mandatory airspace, or where equipage is voluntary the TN72 is a highly affordable and practical ADS-B position source. It meets the FAA's TSO-C199 certification standard for a Traffic Awareness Beacon System, known as TABS for short.

Trig's TN72 GPS receiver is designed for ADS-B, it provides non-zero quality indicators. This is needed to support current and future air to air collision avoidance and situational awareness applications.

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TN72 ensures you will be seen

Many ADS-B In traffic receivers used in general aviation today will only display traffic that generates a non-zero quality indicator as part of its ADS-B output. Most ADS-B In traffic receivers will reject and simply not display aircraft that use equipment with a zero quality indicator. In short, a TN72 means you will be visible across numerous ADS-B In traffic platforms - using lower grade equipment means your aircraft will remain hidden from view. You don't have to compromise your visibility when you fly with a TN72.

A simple retro-fit for one or many

Installing a TN72 is simple - the hardware box is feather weight at only 110 grams, like all Trig products it is energy efficient too. The TN72 is a blind unit so it can be fixed away from the panel, saving space and causing no disruption to other avionics. Flying schools and clubs can exploit ADS-B technology, using a Trig transponder fitted with a TN72 provides you with instant visibility of your fleet. Each aircraft can be viewed on a tablet or phone by using a suitable app - now you can track operations and best manage your training in real time.

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, further information can be found at www.trig-avionics.com

ADS-B the way forward for all pilots

The TN72 is great for glider pilots to powered pilots. Certified aircraft can use the TN72 as an ADS-B position source where equipage is voluntary. As an example, in North America pilots who wish to trigger a full traffic information service on ADS-B In equipment can use the TN72 outside of designated ADS-B airspace.

In Europe, Australia and New Zealand whilst the TN72 offers no privileges in controlled airspace glider, light sport and powered VFR pilots can all benefit from the capability the TN72 provides. As more aircraft participate the skies will be richer with ADS-B Out data. This will benefit pilots who have ADS-B In equipment, allowing them to see who else is sharing their airspace.

The TA70 - matching WAAS GPS antenna

A suitable GPS antenna is required for the TN72 as part of any installation. Trig offers the TA70, a fully certified TSO-C190 antenna that meets the latest FAA ADS-B standards. This antenna is light, easy to install with a superior gasket feature that offers full coverage of existing antenna holes. This provides a secure and water tight seal.

The TA70 is the obvious choice for most customers and can be ordered separately from your Approved Dealer. If a conventional antenna is not an option for your aircraft, then the TN72 can be paired with an appropriate GPS antenna.

| | TN72 - GPS Receiver |
|-----------------------------|--|
| Type | TABS GNSS |
| Certification | TSO-C199 Class B |
| Compliance | TSO-C199 Class B, DO-160G |
| Supply Voltage (DC) | 11 - 33 V |
| Typical Current Consumption | at 14V - 0.1A |
| Operating Temperature | -40°C to + 70°C |
| Cooling Requirement | No fan required |
| Interface protocol | NMEA |
| Weight | 110 grams |
| Connector | GPS (power, ground and GPS data) - 9 way D type Antenna - 5V phantom power - QMA male |
| Unit Dimensions | H 30 x L 90 x W 63mm (W with base flange 80mm) |

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Trig Avionics Limited

Heriot Watt Research Park, Edinburgh EH14 4AP, UK

Tel: +44 (0)131 449 8810 enquiries@trig-avionics.com

Fax: +44 (0)131 449 8811 www.trig-avionics.com