

BETTER BY DESIGN - TRIG PRODUCT RANGE



THE DIFFERENCE IS TRIG

With an established record of designing highly innovative aviation products, Trig Avionics offers you the best mix of quality, features and value. Trig products are easy to install and use, with unique features that are 'Better by Design'.

Trig is the popular choice amongst discerning pilots around the world. With both Stack and Compact avionics, this product overview proves the benefits of installing and flying with Trig.

TT31 - MODE S TRANSPONDER



The TT31 Transponder is a highly practical Mode S and ADS-B Out capable unit. Designed as a 'plug and play' replacement for KT76A, KT76C and KT78A transponders, it's a class leader. The TT31 can save installation time and expense, by using the existing transponder encoder, antenna and wiring. The TT31 is future proof too, adding a suitable GPS source makes the TT31 ADS-B Out, using 1090ES

This is the ICAO international surveillance standard for VFR and IFR flight. The TT31 benefits from a large, bright LED display with a superior user interface, making operation stress free.

Key features	Trig TT31	Garmin GTX 335	Funke TRT 800A
Mode S - Plug & Play	✓	✗	✗
ADS-B to TSO-C166b	✓	✓	✗
Third party GPS compatibility	✓	✓	✓
Stopwatch / timer	✓	✓	✓
Flight hold / altitude monitor	✓	✗	✗

TY96 & TY97 - SLIMLINE VHF RADIOS

The **TY96 Radio** takes minimal height in the panel, at only 33mm tall the radio saves valuable space and eases installation. The TY96 is a 10 Watt model, the **TY97** is a 16 Watt radio - both are 8.33 and 25 kHz equipped. Non 8.33 versions are available, these are the **TY96A** and **TY97A**.



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The TY96 has an impressive display and easy to use interface. It provides up to three times faster tuning, via its unique 'Push Step' function. The radio features Dual Watch, to monitor two frequencies at the same time. Manual frequency selection is straight forward, using the dual right hand control knob. The radio can also connect to compatible GPS and EFIS units. This allows on-route radio frequencies to be loaded into the radio display.

Key features	Trig TY96	GTR 225A
33mm Slimline case	✓	✗
Faster Tuning - Push Step feature	✓	✗
Say Again - repeat	✓	✗
Favourite frequencies	X 200	X 15
Free database facility	✓	✗
Stereo / 2 place Intercom	✓	✓
Compatibility with Garmin G3X systems	✓	✓
Dedicated Emergency button	✓	via flip-flop

Additionally, a custom frequency database can be created - this gives you control and saves the cost of a regular database subscription. A PC is used to create a CSV file, your database is then loaded via a USB stick into the radio in a matter of seconds.

The 'Say Again' button (when pressed) repeats the last transmission, so you don't have to miss a call and transmit 'say again'. These superior features reduce pilot workload and will save you money (when compared to the GTR225A). Another reason why more smart pilots choose Trig.

TMA45 & TMA44 AUDIO PANELS

Trig has two audio panels. The **TMA45** caters for aircraft owners looking for stereo audio and Bluetooth support for music and mobile calls - this is accompanied by industry leading noise reduction. With a one button push / one function philosophy Trig audio panels are easier to use than others.



The **TMA44** is a mono panel, it's great value, with all the core features required in a general aviation aircraft. Both panels are equipped to support VFR and IFR flight operations with ADF, DME and Marker Beacon capabilities.

Key features	Trig TMA45	Trig TMA44
Intercom capacity	2-6 seats	2-4 seats
Audio	Stereo	Mono
Music / Mobile phone	Wireless / Bluetooth	Hard wired
Audio processing	Digital noise reduction	Smooth fade feature
Additional value	Plug/Play GMA 340	Great value for fleets

TI106 - COURSE DEVIATION INDICATOR

Featuring the latest servo and LED lighting technology, for enhanced visibility - Trig's **TI106** is the ideal certified Course Deviation Indicator. It offers great value, compatible with new and legacy systems.



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TT21 & TT22 MODE S TRANSPONDERS



Trig's Mode S and ADS-B Out capable transponders are small and light weight. Occupying minimal panel space, the **TC20 Controller** gives class leading mounting options, creating space for other avionics.

The TC20 has a clear crisp display, which can be mounted in a 57mm round hole or space saving compact mount. The transponder back box has its own certified mounting tray, usually installed away from the panel. The **TT21** is a 130 Watt, Class 2 model, the **TT22** is a 250 Watt, Class 1 model.

Both meet the latest surveillance standard TSO-C166b. When paired with a TN72 or TN70 GPS Position Source they provide ADS-B Out, which is visible to all ADS-B In systems.

Key features	Trig TT21/22	Funke TRT 800	TQ KTX2S
Space saving mounting option	✓	✗	✗
Length in panel	52mm	160mm	146mm
ADS-B TSO-C166b	✓	✗	✓

TY91 & TY92 VHF RADIOS

Small but proven, the Trig **TY91 radio** is a 6 Watt compact model. The **TY92** is a 16 Watt version (for aircraft above FL150). Using the same 'space saving' design philosophy as Trig's compact transponders, the TY91 radio provides high quality communications with a built-in two place intercom.

Features such as 'Push Step' significantly speeds frequency selection - allowing the pilot to shift between 8.33 and 25 kHz spacing (covering band width three times faster). Dual Watch allows the monitoring of two frequencies at the same time. Additional to the preset onboard radio channels, the TY91 can also be connected to compatible EFIS/GPS systems. This allows the automatic loading of a frequency & identifier onto the TC90 display.



Simply pressing flip-flop makes this frequency active. The **TC90 Controller** has a clear display, with illumination & dimming functionality. The radio also has a built-in speaker amplifier for non-headset use. A **TY91 Dual Control** option with two controllers is available for tandem aircraft and gliders.

Key features	Trig TY91/TY92	Funke ATR 833	TQ KRT2S
Space saving mounting option	✓	✗	✗
Length in panel	36mm	169mm	146mm
3 x Faster Tuning 'Push Step'	✓	✗	✗
Dual Watch	✓	✓	✓
GPS / EFIS Frequency Support	✓	✗	✗



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TN72 - GPS POSITION SOURCE

Using a certified **TN72 GPS Position Source** with a Trig transponder has real safety benefits. Mode S and ADS-B Out will make you visible to ATC, commercial, military aircraft and all ADS-B In traffic systems. If instead, you use an uncertified GPS this could make you invisible to other aircraft. Some traffic receivers are designed to reject ADS-B Out when transmitted using an uncertified GPS.



Rather than compromising your safety - be seen and be safe - fit a TN72 to your Trig transponder. This is a highly affordable way to become ADS-B Out equipped in voluntary airspace and complies with TSO-C199.

Trig sells two complete Conspicuity Systems. The **TT22 ADS-B Bundle** is popular in the U.S. It contains a TT22 transponder, TN72 and TA70 GPS puck antenna (for LSA, homebuilt and experimental use). New for 2021 is the **TT21 Conspicuity Bundle**. This includes a TT21 transponder, TN72 and a TA50 GPS compact antenna. This is ideal where regulations permit, including voluntary ADS-B Out. The TA50 compact GPS antenna can be mounted on the cockpit coaming, where good visibility of the horizon is possible. Installations in high wing aircraft may require an external TA70 GPS antenna - but all items can be purchased individually to suit.

TN70 - GPS POSITION SOURCE

Aircraft owners of Part 23 aircraft wanting to fly in ADS-B Out mandated airspace will usually be required to install a TSO-C145 GPS Position Source.

Trig's **TN70 GPS Position Source** provides the ideal blind box upgrade to a Trig TT22 or TT31 transponder, to meet ADS-B Out mandate criteria.



The kit contains a light-weight GPS unit, that can be installed away from the panel. This reduces the complexity and cost of installation. A **TA70 GPS** antenna is included, this can be used to replace an existing antenna. The TA70 complies with TSO-C190

A free ADS-B STC and comprehensive AML aircraft list is available via qualified Approved Trig Dealers.

MAKING INSTALLATION EASIER

Approved Trig Dealers can provide access to a range of accessories to make your Trig installation easier.

Wiring harnesses for compact transponders and compact radios are available in 1m or 3m lengths. These simplify installation, transponder versions can include wiring for the TN72. This reflects the wisdom in making a transponder ADS-B Out capable when installed, either as new or as an upgrade.

For more information and to find your nearest Approved Trig Dealer visit www.trig-avionics.com

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Safer

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