

# TRIG TN70 – THE SMART ADS-B OUT SOLUTION



## 5 reasons to buy

- Compliant ADS-B 1090ES Out - International Standard
- ADS-B Out enhances visibility and safety
- Lightweight and simple installation
- Companion product for Trig Mode S / ADS-B transponders
- Worldwide Trig Support

## Benefits of a Trig ADS-B solution

Trig produces smart, affordable and future proof avionics. If you're an aircraft owner looking for an affordable ADS-B Out solution with superior performance then Trig has the right ADS-B solution to get you equipped today.

If you already own a suitable Trig transponder then adding our TN70 is the easiest way to become ADS-B compliant. The TN70 includes a certified WAAS GPS and companion WAAS GPS antenna, designed to enhance your aircraft via a simple install that will deliver excellent ADS-B Out performance. The TN70 takes no panel space, it is fitted discretely as a stand-alone GPS so you can retain and use your existing panel equipment.

If you need a Trig transponder to complete your TN70 ADS-B solution, then simply add one of our class leading transponder products (certified to FAA TSO-C166b, the latest ADS-B standard).

A Trig transponder is the hub of an ADS-B Out system, using 'extended squitter' to communicate with ground stations and suitably equipped aircraft. It's worth remembering; if you intend to use ADS-B In for access to traffic information then a compliant ADS-B Out system must be installed. A Trig transponder is an ideal way to ensure your ADS-B Out is compliant.

Trig transponders use 1090ES technology – the ICAO 'International Standard'. A Trig ADS-B Out system provides a versatile and flexible solution, flown by many GA pilots around the world today.

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## TN70 - optimal performance with TT31 and TT22 transponders

Trig leads the field in providing a faster install with lower associated costs. The TT31 transponder is the ideal retro-fit for the KT76A, KT76C and KT78A and has industry leading flexibility when installing ADS-B, enjoying wide compatibility with third party avionics. Our TT22 transponder is the compact alternative best suited to aircraft owners with limited panel space. The separate control head with built in altitude encoder takes up minimal space 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, further information can be found at [www.trig-avionics.com](http://www.trig-avionics.com)

## TA70 - WAAS GPS and WAAS antenna

A compliant ADS-B Out demands a certified position source. The TN70 is paired with a high quality WAAS antenna optimised for our Trig transponders. The TA70 is 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.

### Trig's Free FAA STC

Trig has an established FAA ADS-B STC available for TT31 and TT22 transponders using the TN70. Details of our STC can be found within Trig's support pages [www.trig-avionics.com](http://www.trig-avionics.com)



	TN70 - WAAS GPS	TA70 - ANTENNA	TT31 Transponder	TT22 Transponder
Type	GNSSU/GPS SBAS/WAAS	WAAS GPS antenna	Class 1 Mode S Level 2 els ADS-B Class B1S	Class 1 Mode S level 2 els ADS-B Class B1S
Certification	TSO-C145c Beta 1 Receiver	TSO-C190	ETSO C166a, 2C112B TSO C112, C166b	ETSO C112c, C166a TSO C112c, C166b ETSO C88a, TSO C88b
Compliance	DO-229D DO-178B level C DO-254 level C DO-160F	DO-301 DO-160G	DO-181C, ED-73B DO-260B Class B1 S DO-178B level B DO-254 level C DO-160E	DO-181D, ED-73C DO-260B Class B1S DO-178B level B DO-254 level C DO-160F
Supply voltage [DC]	9-32 Volts	4.5-14.5 VDC	10-33 Volts	9-33 Volts
Typical consumption @14 V	Typical: 0.2A Max: 0.3A	40mA Typ / 60mA max	Idle: 0.22A Active: 0.45A	Idle: 0.15A Active: 0.34A
Nominal transmitter power	N/A	N/A	240W at connector	250W at connector
Operating temperature	-55° - +70°	-55° to +70°	-20° - +70°	Transponder -40° - +70° Controller -25° - +70°
Operating height	110,000 feet	55,000 feet	35,000 feet	35,000 feet
Cooling	No fan required	N/A	No fan required	No fan required
Weight	1.06 lbs	0.31 lbs	2.8 lbs	0.8 lbs
Dimensions H x W x L - inches	1.6" x 4.13" x 6.5"	1.59" x 2.87" x 4.71"	1.57 x 6.30" x 9.4"	Transponder 1.8" x 2.6" x 6.2" Controller 1.8" x 2.4" x 2.1"

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