New!

TRIG

TT31 Mode S Transponder

European Mode S

Low Power Consumption

No Cavity Tube

240 Watts Nominal Output

Plug and Play Installation

Backlit LCD Display

Easy to Use Rotary Knobs

Timer/Stopwatch Function

Altitude Monitor

ADS-B Ready

The TT31 is a power efficient, inexpensive, Mode S general aviation transponder. The TT31 meets the European elementary surveillance requirements, and fits the same mounting tray as the popular KT76A/C transponder, making it ideal for both new and retrofit installations.

The TT31 front panel has a backlit graphic display that provides easy access to the transponder functions, including setting of the Flight ID. Squawk code and Flight ID input use a conventional rotary knob, and all functions are easily operated.

Meet Current and Future Mandates

The TT31 transponder is an ED-73B Class 1 compliant Mode S level 2 datalink transponder, with support for extended squitter. It meets all the current requirements for non-diversity Mode S elementary surveillance transponders in Europe for both IFR and VFR flight.

The TT31 will also support 1090 MHz Automatic Dependent Surveillance Broadcast (ADS-B) extended squitter. By linking the TT31 to an appropriate GPS receiver, the TT31 will be able to transmit position information to ADS-B equipped ground stations and other aircraft. This provides improved airborne surveillance, provides vital information for airport ground surveillance, and is a key feature of future airspace plans.

The TT31 will support Traffic Information Service (TIS) functions, where available, by interfacing to an appropriate cockpit display.

ADS-B and TIS functions will be made available as a software-only field upgrade.

Low Power Design

The TT31 uses as little as half the electrical power of the leading competitor, and half the power of most legacy transponders, whilst still retaining a fully backlit display and transmitting a higher power

signal. This is achieved by using modern high efficiency design techniques and making best use of the power available. One of the biggest reliability challenges for General Aviation avionics products is heat, and by reducing power consumption, we have significantly reduced waste heat in the avionics stack. This means greater reliability for ALL your avionics, not just the TT31, and puts less load on the electrical system and battery of your aircraft.

Flexible Installation

The TT31 is designed to be compatible with both existing and new panels. The flexible power input means that 14 volt and 28 volt systems can be accommodated without any special configuration or dropper resistors. Automatic and manual panel lighting selections mean that an attractive presentation will be available in the simplest panel installations. And the TT31 is compatible with both parallel and serial altitude encoders; it can even act as a serial altitude repeater to provide an easy altitude source for your GPS.

Mechanically the TT31 follows an industry standard form factor, and if you are upgrading from a KT76A transponder, the TT31 is a simple plug-and-play replacement.

TT31 Specifications

Type:	Class 1 Mode S Level 2 Datalink
Certification:	ETSO 2C112
Compliance:	ED73B, DO178B level B, DO160D
Supply Voltage (DC):	10 – 33 Volts
Typical Current Consumption:	Idle: 0.22 Amps (3 Watts)
(at 14 Volts)	Active: 0.45 Amps (6.3 Watts)
Transmitter Power:	240 Watts nominal at connector
Operating Temperature:	-20 to +55 C
Cooling Requirement:	No fan required
Weight:	3.6 lbs (1.65 kg)