

# Terra by Trimble TRT 250D Transponder

*A transponder certified to category C74C Class 2A, offering state-of-the-art solid miniature microwave technology*

**H**aving an aircraft that is transponder-equipped makes you easily identifiable by ground radar. It also opens up more airspace for your operations. Air Traffic Control is able to offer transponder-equipped aircraft higher levels of service, separation, and safety. This is a must when flying in today's crowded airspace.

The Terra by Trimble TRT 250D Mode C capable transponder is fully TSO'd to Class 2A and approved for use in all general aviation and regional airline aircraft. It features a brilliant planar gas discharge display which is clearly visible, even in bright sunlight. Also, as with all Terra by Trimble radios, the 250D has an automatic dimming feature which adjusts for all lighting conditions.

With the TRT 250D, you can select transponder codes with the single-knob cursor tuning. A unique Terra by Trimble feature also allows you to directly squawk VFR with a simple push of the VFR button. In addition, this unit simultaneously displays active and standby codes which you can transfer with a touch of a button.

For reliability and ruggedness in all conditions, the TRT 250D uses the latest surface-mount components. The TRT 250D's advanced design also incorporates state-of-the-art LSI computer architecture and miniature microwave technology. This eliminates the expensive cavity tube transmitter found in lesser designs; another Terra by Trimble Technology Advantage.

Like all of its radios, Terra by Trimble houses the TRT 250D in a stainless steel mounting tray in either a single- or dual-mount chassis. You can also purchase an optional chassis that mounts into a standard 3" ATI cutout.

The TRT 250D is the smallest transponder with the biggest features including affordability and innovative technology which keeps you seen and headed in the right direction.

### **Altitude Digitizer AT 3000:**

Your altitude is automatically reported with the AT 3000 Altitude Digitizer. This solid state blind encoding altimeter is designed to interface with the Terra by Trimble TRT 250D transponder as well as other Mode C transponders. The addition of the AT 3000 to any transponder provides the altitude reporting capability that is required when you need to fly in today's complex airspace.

### **Key Features and Benefits**

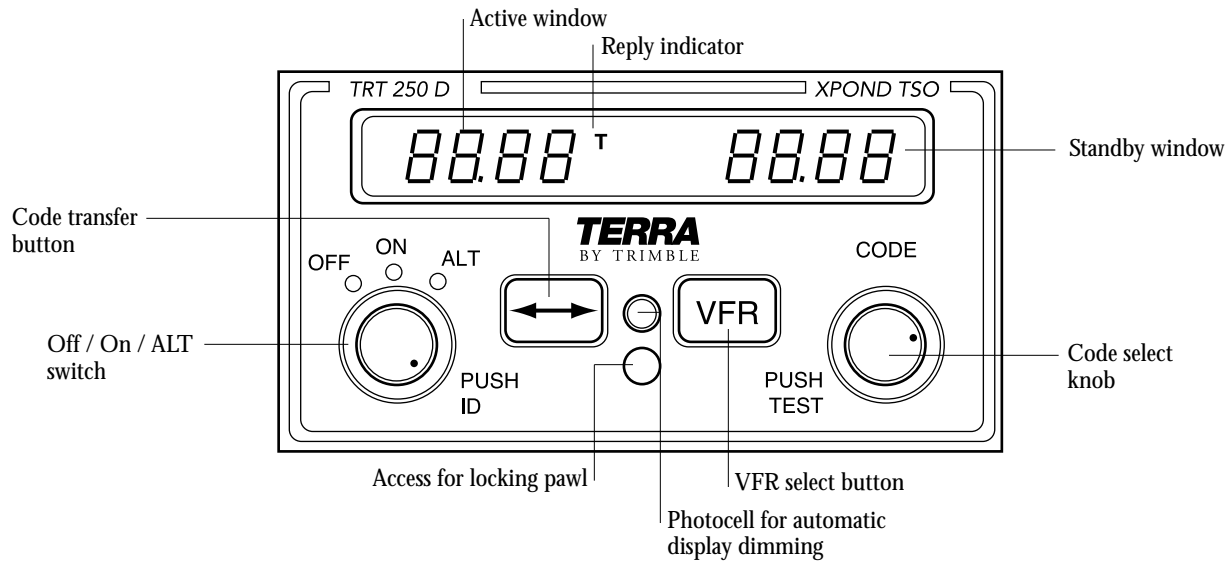
- Highly visible gas discharge display
- Easy-to-use single-knob cursor tuning
- One-touch Squawk VFR
- 10 frequency memory reduces pilot workload
- Small and lightweight, easy-to-install
- Air show proven, rugged and reliable
- Optional 40 channel glideslope receiver
- TSO'd
- Unparalleled three year warranty



**TERRA**  
BY TRIMBLE

# Terra by Trimble TRT 250D Transponder

## Features



## Technical Specifications

### Transponder

- Planar gas discharge display
- Dual display, active/standby
- Single knob code selection
- Direct selection of user-selectable VFR code
- DME suppression input and output
- All solid-state circuitry—no cavity tube
- Transmit indicator light
- Automatic display check
- Approved for use in helicopters and turbine powered aircraft
- Includes mounting tray, antenna and connector kit
- Keep alive memory of last used active frequency

- Transmit Frequency:** 1090 MHz
- Receive Frequency:** 1030 MHz
- Power Output:** 200 watts nominal
- Receiver Sensitivity:** -72 dBm minimum
- Power Requirements:** 11 to 32 VDC, 0.75 amps max
- Reply Modes:**  
A and C for air traffic control and altitude reporting
- Code Capability:**  
4096 plus SPIP (ident)
- Altitude:** To 55,000 ft. MSL

### Vibration:

Approved for all piston or turbine powered aircraft, balloons, sailplanes, helicopters

**TSO Category:** C74c Class 2A

### Environmental Cat:

DO-160A/A1F1/A/PKS/  
XXXXXXXXBBBA

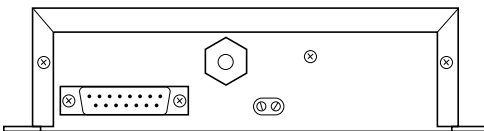
**Size:** 3.125"W; 1.6"H; 11.45"L (incl. mounting tray)

**Weight:** 1.84 lbs.

\*D model Comms, Navs ADF's and Transponders are also available in a standard 3" ATI mount. Specifications subject to change without notice.

## AT 3000 Altitude Digitizer • Blind Encoding Altimeter

## Technical Specifications



### Accuracy:

± 100 ft. nominal (measured at the digital altitude code transition point(s); tracking adjustments are provided to permit matching for correspondence with the aircraft altimeter.)

**Altitude Range:** -1,000 to +30,000 ft. maximum operating range

**Operating Temperature:** -20°C to +55°C

**Input Power:** 11 to 32 VDC, 160 mA at 14 VDC; 80 mA at 28 VDC

TSO'd to C88

**Size:** 2.55"W; 1.65"H; 7.25"L

**Weight:** 0.5 lbs.



For Sales Information:  
Avionics Products  
2105 Donley Drive  
Austin, TX 78758  
1-888-FLY-TERA inside U.S.  
(512) 432-0400 outside U.S.  
Fax: (512) 836-9413

For Service & Support:  
Avionics Products  
1-800-487-4662  
Fax: (512) 432-0276  
(512) 432-0580 Service outside U.S.  
(512) 432--0590 Sales outside U.S.