

Terra by Trimble TMA 350D

Audio Panel

An audio panel offering an internal intercom and built-in marker beacon receiver

Combining a high-quality, four place VOX intercom and built-in marker beacon receiver into the compact Terra by Trimble TMA 350D Audio Panel demonstrates the Terra by Trimble Technology Advantage.

The VOX (Voice Activated Intercom) allows clear communications between pilot, co-pilot, and two passengers. By using the TMA 350D, you conserve valuable panel space because a separate intercom is not needed. Also, the dangerous clutter of wires and cords from portable intercoms is avoided.

Toggle switches provide selection for up to three COMMS, two NAVS, ADF, DME, MKR plus AUX for HF or a radio telephone.

An audio isolation amplifier is included for the speaker. This feature provides isolation, even when you select the same source for a ramp hailer speaker or intercom. It also prevents cross talk between selected audio outputs. The isolation amplifier includes an auto switch, allowing the desired communication audio to track the setting of the mic selector. You can select this feature for either speaker or headphone outputs. If these features are not enough, the TMA 350D provides inputs which you can use for Radar Altimeter DH warning, or a Flight Phone Telephone ring.

In the unlikely event of an audio panel failure, the TMA 350D has a built-in emergency mode which automatically routes your headphones and microphone to Comm 1.

Another feature of the TMA 350D is its built-in marker beacon receiver. This provides the standard visual 3-light presentation and audio tone which identifies the beacon you're passing over. The unit's integral marker lamps have an automatic timing feature. Remote lamp connections are also available if needed.

The marker receiver has a three-position sensitivity switch. In HIGH mode, the receiver is set for maximum sensitivity. In AUTO mode, the exclu-

sive automatic audio muting reset gives you more time to concentrate on the approach. This means no cumbersome reaching over to mute or reset the audio. When in AUTO position, the TMA 350D automatically mutes the audio after 12 seconds and then resets it to High sensitivity. In TEST mode, all lamps are lit indicating proper operation. Of course with the TMA 350D, you can select the marker tone for either speaker or phone outputs.

Key Features and Benefits

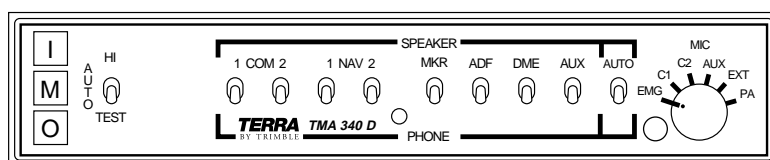
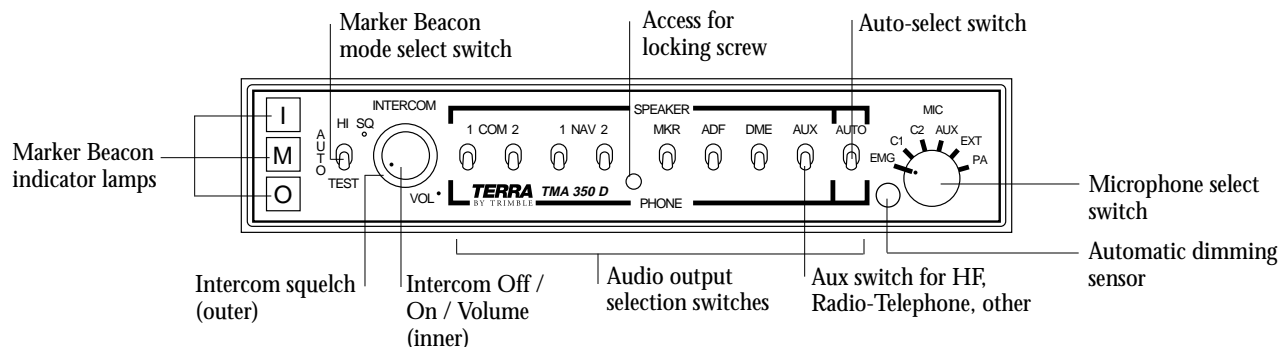
- Internal 4 place VOX intercom
- Internal marker/beacon receiver with automatic audio muting
- Small and lightweight, easy-to-install
- Air show proven, rugged and reliable
- Extensive input capability
- TSO'd
- Unparalleled three year warranty



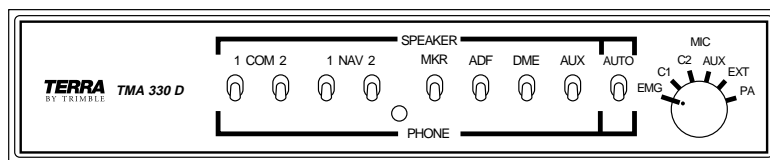
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Features



TMA 340 D Audio Panel With Marker Beacon Receiver; Without Intercom



TMA 330 D Audio Panel Without Marker Beacon Receiver & Intercom

Technical Specifications

Power Requirements

Volts	13.75 VDC	27.5 VDC
Idle current TMA 350D	135 mA	165 mA
Idle current TMA 340D	135 mA	145 mA
Idle current TMA 330D	50 mA	55 mA
Max. op. current	1.7 amps	1.7 amps
Instrument lights	105 mA	105 mA

Weight:

(TMA 350D & TMA 340D) 1.5 lbs.
(TMA 330 D) 1.4 lbs.

Size:

6.25"W; 1.2"H; 5.5"L

Temperature:

-20°C to +55°C

Inputs:

7 switchable inputs - 2 Comms, 2 Navs, ADF, DME, and Aux for HF or Telephone; 3 unswitched inputs, Radar Altimeter, Altimeter DH and Telephone ringer (possible inputs)

Input Selector

Each switched audio input uses one switch to select either speaker, off or phones

Mic Selector:

Selects either Emergency, Comm1, Comm2, Aux (HF or telephone), ext. (ramp hailer), and PA (passenger speaker)

Input Impedance:

510 ohms

Input Isolation:

40 db between inputs (Speaker output only)

Input Muting:

60 db when mic is keyed

Speaker Output:

With 13.75 VDC supply 5 watts typical into 3.2 ohms load; With 27.5 VDC supply 7 watts typical into 3.2 ohms load

Frequency Response:

3 db from 300 HZ - 3 KHz

Total Harmonic Distortion:

10% max at rated output

Marker Beacon Receiver

(TMA 350D & TMA 340D only)

Frequency:

Crystal controlled at 75 MHz

Sensitivity:

Low 1,000 μ V with 90% modulation
High 200 μ V with 90% modulation
Auto switches from high to low sensitivity and mutes audio automatically for 12 seconds

Selectivity:

6 db \pm 7 KHz; 60 db \pm 20 KHz

Frequency Stability:

.005%

AGC Control:

Less than 10 db audio deviation from 200 μ V to 1000 μ V

Marker Lamp:

Auto dimming and remote lamp outputs, 12 VDC at 85 mA max per lamp

TSO Category:

C35D, C50C

Specifications subject to change without notice.



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