

Traffic-Watch+

"Traffic, 5 o'clock, 4nm, 500ft above"



ATD-300

FAA-PMA STC

Compact Multifunction Collision Avoidance

From the moment you learn to fly you are advised to be aware of traffic in your vicinity. By visually scanning the area you can assess most traffic threats, but what about when you are busy looking at your charts, approach plates, flight manual, instruments, programming your GPS or just sightseeing.

Traffic-Watch+ provides that continuous traffic awareness. The ATD-300 detects all transponder type replies from nearby traffic and display their range, direction (with opt. ANT-300 antenna) and altitude on a bright digital LED display. Simultaneously, a clear female voice prompts you with **VOICE ALERTS** in relation to traffic proximity. **Traffic-Watch+** also checks your transponder operation and bus voltage. All

of these in a compact unit, no bigger than a speed radar detector.

With the **Plug & Fly** kit (no direction) you just plug the ATD-300 into the cigarette lighter (for power) and the aircraft headphone jack (for voice) and you are ready to fly. No panel space or installation is required. Or if you prefer the ATD-300 can be easily panel mounted in your aircraft. Kit included.

Tested in the flight training environment the ATD-300 is the perfect cost effective solution for training and sport aircraft.

One near miss will justify the ATD-300. Priced at \$795.00 a dent will cost you more.

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Engineered for Quality and Reliability

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The Traffic-Watch+ Concept

Auto Mode Display



Range, direction & altitude



Traffic MSL altitude



No mode C traffic



Host txpr mode C altitude



Host txpr mode A code



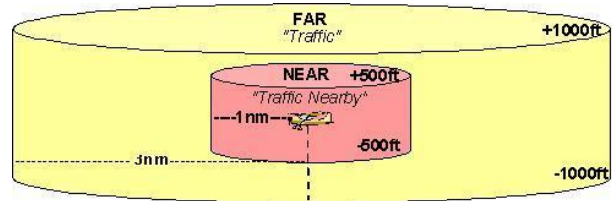
Bus voltage



Voltage warning

The ATD-300 *Traffic-Watch+* is a passive receiver capable of detecting transponder replies from nearby aircraft and displaying their range, direction (with opt. ANT-300) and altitude on an 8-character dot matrix yellow LED display. It also provides distinctive voice warnings in relation to traffic proximity. The ATD-300 has a detection range of 5 nautical miles. The system consists of a receiver/indicator unit and antenna. The receiver is housed in a small aluminum box for easy location in the cockpit.

Traffic Warning Envelope



The ATD-300 provides distinctive voice warnings for traffic at different ranges. When set in the FAR mode traffic at 3nm and $\pm 1,000$ ft "Traffic" is annunciated. When set in the NEAR mode only traffic within 1nm and ± 500 ft "Traffic Nearby" is annunciated. When there is no traffic activity the ATD-300 will automatically indicate the host transponder MSL pressure altitude or squawk code. Audio output to headphones (300 ohms) and ext. data (RS-232) for remote displays is provided on the back of the unit.

The ATD-300 features a built-in voltage-warning indicator that lets you know if the aircraft bus voltage is out of range. This function works on the background all the time and is activated after engine start. If an out of range condition exist the ATD-300 annunciates it by voice and by text.

The **ANT-300 Digi-Scan** small foot print directional antenna provides direction capability to the ATD-300. It is specifically designed for small aircraft where antenna space is at premium. It only requires a single coax cable thus simplifying installation (no calibration required).

Specifications

Frequency:	1090 MHz
MTL	-70dBm
Transponder Types	Mode A/C/S ADS-B
Decoding Altitude Range:	-1200 to 30,700 feet
Max. Range:	5nm
Range Accuracy:	20%
Antenna Type:	TXPR type or ANT-300
Antenna Connector:	Single BNC
Display Direction Resolution:	30 deg.
Audio Output Impedance	300 Ohms
Ext. Output Data	RS-232, ARINC 429 opt.
Message Repetition Rate:	25 Seconds
Supply Current at 14V:	0.18 Amps
Supply Current at 28V:	0.09 Amps
Voltmeter Accuracy:	1% FS
Operating Temperature:	-20 deg C to +55 deg C
Enclosure Type:	Black extruded aluminum
Unit Weight:	10 Ounces
Unit Dimensions:	2.75" W x 0.75" H x 5.0" D
FAA Approval	PMA STC DO-160D
List Price:	\$795.00



Thanks to its compact size the ATD-300 can be located anywhere in the panel. Mounting brackets and connectors are provided with the unit.

ANT-300 Antenna
 Size: 5"L x 3"H x 1"W
 Conn.: Single BNC
 Top or bottom Inst.
 List Price: \$495.00

