

Sales Document

ALT-8000/8015

Hot Sheet

The ALT-8000 and ALT-8015 are portable test sets used to test and troubleshoot installed radio altimeters within the civil and military sectors, by connecting directly to the UUT transmit/receive port or via two supplied antenna couplers. The ALT-8000/8015 does not test barometric altimeters.

There are two main types of Radio Altimeters:

- FMCW/CDF (Frequency Modulated Continuous Wave/ Constant Difference Frequency)
- PULSE - Altitude determined by elapsed time between transmission and reception after reflection from the ground.

Pluse type radios are typically used for military applications (rotary wing). FMCW/CDF radios are primarily used for fixed-wing applications.

The ALT-8015 is required to test military pulse radios.

The most common are:

- AN/APM-171
- AN/APM-194
- AN/APM-209

A single channel is suitable for testing most systems including Enhanced Ground Prox Warning Systems (EGPWS). For any multi-channel application, please contact the factory for details.

Low altitude limitations

How to respond to the question "why can't I test below 75 ft?"

Due to the behavior and/or inherent signal delay of certain radio altimeters, simulating below 75 feet may not be possible. If the customer knows the lower range, then a simulation of 100 feet, for example, may be sufficient to verify the entire lower range is working properly. To simulate zero feet, the customer can use the

ground as reference.

Most issues with a radio altimeter system are due to antenna or coax faults limiting the output or receive power.

Features

- Remote control interface (Ethernet)
- Direct-connect to UUT T/R or to installed system via antenna couplers
- Programmable multi-leg climb/descend profiles
- Software updates downloaded via website
- Parametric measurements of TX power /frequency / pulse width / FM deviation /PRF



Key Customers

- All commercial and military operators/maintenance and repair facilities
- Radio altimeter and airframe OEM's

Product Positioning

- Radio altimeter system failures have been identified as Boeing's #1 issue.
- The ALT-8000/8015 is the only solution for end-to-end testing of the radio altimeter installation.
 - Replicate in-flight conditions
 - Help isolate antenna grounding issues
 - Help isolate an issue with either the transmitter or receiver
 - Eliminate costly no-fault-found
 - Save time by setting up and saving profiles for repeated use
 - Verify trip points and that all altitude ranges are operable

Primary Competitors

All competitor equipment will direct-connect only to the radio.

- No RF tester competition
- Eastern OptX 6000 – bench testing only
- Atlantis DRA-707 – direct connect only
- ASI-203 (equivalent to Collins 980N-1A) direct connects only to Collins radios
- Honeywell AMT-52A – direct connects only to HW radios

Applications

- Terrain Awareness Warning System (TAWS) installation
- Simulate a complete landing approach, including a flare out
- Simulate a takeoff and departure
- Replicate actual airborne conditions

Key take-away:

Unlike all other testers, the ALT-8000/8015 tests from the antenna to the indicator in the cockpit. This allows you to replicate inflight conditions and isolate a bad component of the installed system.



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