

ARAL

RADAR ALTIMETRE

GROUND OR SEA HEIGHT INFORMATION
DO-178C AND DO-254 CERTIFIABLE





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RADAR ALTIMETRE

ARAL is a Line Replaceable Unit (LRU) which provides the aircraft clearance over the over-flown terrain referred as height in real time.

The Radar Altimeter provides reliable and accurate reference information of terrain clearance in severe environmental conditions on fixed-wing and rotary wing platforms.

The Radar Altimeter has external interfaces with the the following equipments:

- Airborne Navigation Computer
- Airborne Power Supply
- Two antennas

With its reliable, durable design, advanced conduction and natural convection cooling techniques, Radar Altimeter can be integrated into different aerial platforms.

General Specifications

- One receiver and one transmitter antenna interfaces to operate in G-band.
- Operating band is between 4,2 GHz to 4,4 GHz.
- Operating band accuracy is 0,01 GHz.
- Provides the height information, in a range from 0 ft up to 5000 ft.
- Built In Tests (BIT) capability

Interfaces

- ARINC 429 Output Interface
- Discrete Input / Output Interface
- RS422 Interfaces
- Maintenance Interface

Physical Specifications

- Dimensions (HXWXD) : 100mm x 90mm x 190mm
- Weight : < 2 kg (with antennas)

Power Interface

- Operating Voltage : 28V
- Power Consumption : 25W (Maximum)

Environmental Conditions

- Operating Temp. and Altitude: -45°C / +70°C, 25.000 ft.
- Storage Temperature : -55°C / +85°C

Qualifications

- MIL-STD-810G
- MIL-STD-704F
- DO-160G