



Łukasiewicz
Institute
of Aviation



A Radio Altimeter [RADALT] is an electronic instrument used to measure the distance between an aircraft and the terrain directly below it

RWL-750M RADIO ALTIMETER

CHARACTERISTICS

The RWL-750M Radio Altimeter was designed and developed in Łukasiewicz – Institute of Aviation. RWL-750M has performed a successful flight test on the Polish military jet aircraft PZL-I22 Iryda. The RWL-750M is used on board the PZL M28 Skytruck/Bryza and PZL W-3RM Anakonda helicopter.

RWL-750M Radio Altimeter can operate in two versions:

- AA-E4 electronic block (2500 ft),
- AA-E6 electronic block (1000 ft),
- AA-E7 electronic block (750 m).

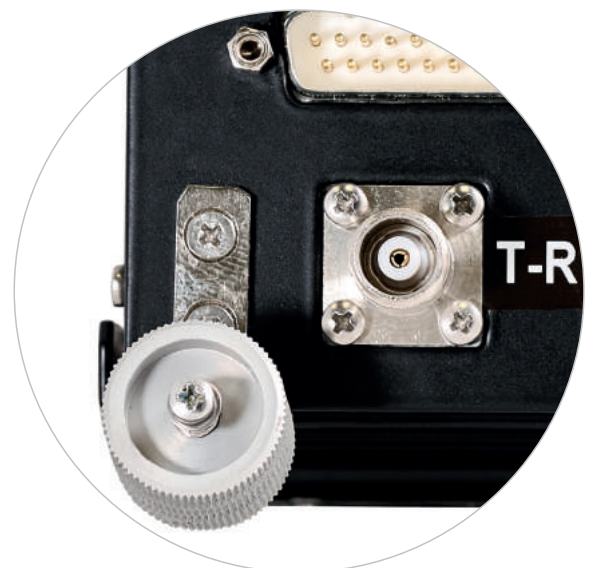


TECHNICAL DATA

Parameter	Value
Dimensions	3,58 " W x 3,46 " H x 10,04 " L [91 x 88 x 255 mm]
Weight	1,9 kg
Power supply	27.5 V DC ±20% 0.7A nominal
Altitude	55,000 ft
Temperature	/-45°C to +60°C
Transmitter output	250 mW FMCW, 100 Hz modulation
Frequency	4300 ±20 MHz
AID height	20 ft to 60 ft (6 m to 19 m)
AA-E4 accuracy	2 ft or ±3% from 0 ft to 500 ft, ±3% from 500 ft to 2500 ft
AA-E6 accuracy	2 ft 0 ft to 100 ft, ±2% from 100 ft to 1000 ft
AA-E7 accuracy	0.6 m or ±3% from 0 m to 100 m, ±3% from 100 m to 750 m

KEY FEATURES

- AA-E4 can operate with AA-W4 indicator, up to 2500 ft.
- AA-E6 can operate with AA-W6 indicator, up to 1000 ft.
- AA-E7 can operate with AA-W7 indicator, up to 750 m.
- Compatible with two S67-2002 antennas (Sensor System).
- Analogue output and ARINC 429 for interfacing with GPWS system, TCAS and Autopilot.
- Required AA-R4 shock absorbing frame.
- RWL-750M can be easily tested and calibrated in use T4S Tester Radio Altimeter.
- Tester developed in Łukasiewicz – Institute of Aviation.



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