

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).

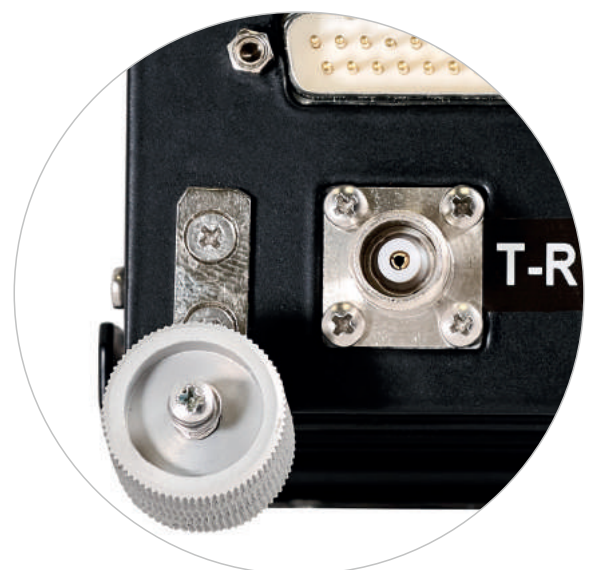


TECHNICAL DATA

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.



The Łukasiewicz Research Network – Institute of Aviation offers a wide range of specialized research, engineering services and products. We provide comprehensive solutions, ranging from dedicated analyzes, simulations, engineering design, through the selection, testing and certification of materials and structures, to rapid prototyping and additive manufacturing.

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