



**Łukasiewicz**  
Institute  
of Aviation



# CRW-13 DIGITAL RADIO ALTIMETER

Receiver / Transmitter / Antennas (2500ft.)

# CHARACTERISTICS

The Łukasiewicz – Institute of Aviation designs and manufactures wide range of aeronautical flight instruments. These include radio altimeters, fuel indicators, navigation systems, avionics and others.

As part of research and development work, the institute's engineers have designed and manufactured prototypes the digital radar altimeter CRW-13.

Due to its uncomplicated design and good performance, it is an excellent solution for light aircraft, helicopters, drones and rockets.



# TECHNICAL DATA

Parameter	Value
Size without flange	3,15"W x 1,77"H x 7,09"L, (80 x 45 x 180 mm)
Weight	1,05kg
Primary Power	14Vdc /0,5 A nominal up to 28Vdc /0,3 A
Altitude	55 000ft.
Temperature	-45°C to 60°C
Transmitter output	150mW FMCW, 100Hz modulation
Frequency	4300 ±20MHz
AID – factory settings	2ft to 20ft ( 0,6m do 6m)
CRW-13 accuracy	±2 ft. or ±2% at 0-500ft, ±3% at 500-2500ft

# KEY FEATURES

- Digital signal processing based on FFT using spectrum level criteria.
- Transmitter/ receiver unit with build in antennas.
- Installation without heavy coaxial cables and mounting rack.
- Low height enabling mounting in low profile fuselage.
- Analog and ARINC 429 outputs for increased interface capability including GPWS,TCAS, Autopilot.



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.

al. Krakowska 110/114, 02-256 Warsaw, Poland

e-mail: [info@ilot.lukasiewicz.gov.pl](mailto:info@ilot.lukasiewicz.gov.pl) / [www.ilot.lukasiewicz.gov.pl](http://www.ilot.lukasiewicz.gov.pl)