



AHV 2900

DIGITAL RADIO-ALTIMETER

- > **Low altitude penetration**
- > **LPI (Low Probability of Interception)**
- > **Jamming resistance**
- > **High dependability**
- > **Analog and/or Digital outputs**
- > **Cable length flexibility**
- > **Modular architecture**
- > **Easy integration**
- > **Dual technology**

AHV 2900

The AHV 2900 radio-altimeter has been designed to meet the latest fighter requirements and stringent requirements of specific aircraft like MPA.

Its modular architecture allows to adapt dependability and interfaces (MIL-STD 1553B, ARINC 429) to the requirements of each platform.

The AHV 2900 improves the FM/CW radio-altimeter technique, that has been developed and patented by THALES for more than 30 years, with digital signal processing and latest Radio Frequency technology. It provides enhanced accuracy, integrity, immunity to multipath, ECCM performances and reduced power consumption.

GENERAL

This new radio-altimeter provides:

- LPI (Low Probability of Interception)
- Power management
- Immunity to multipath
- Jamming resistance
- Interface flexibility
- High dependability level with degraded modes
- Reduced acquisition time
- Enhanced tracking performances even in case of severe maneuver angles (roll and/or pitch)
- Easy integration
- Easy maintenance

TECHNICAL

Modulation	FM/CW
Frequency range	4,200 to 4,400 MHz
Accuracy	3 feet ± 1 %
Altitude range	up to 30,000 ft
Power supply	28 V DC < 35 W
Interfaces	Dual redundant MIL-STD 1553B, ARINC 429 outputs
Aid	24 ft to 80 ft

PHYSICAL

Type	Dimensions (W x H x D)	Weight
AHV 2900	90 x 160 x 210 mm 3.5 x 6.2 x 8.2 inches	3.5 kg 7.8 lbs
ANT 130	49 x 85 x 24 mm 1.9 x 3.3 x 0.9 inches	0.07 kg 0.15 lbs

OPERATIONAL

Integrity	up to 10 ⁷
MTBF	> 3,000 hours
BITE	> 90 %
Cooling	Natural convection
Operating temperature range	- 45° C to + 71° C
EMI / EMC	MIL-STD-461C
Design	MIL-E-5400T

ASSOCIATED EQUIPMENT

Antenna	ANT 130
Indicator	IND 521 or IND 821
Workshop test bench	BTE 290
Ramp test bench	RTP 690

THALES

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