

# SINGLE ANTENNA RADAR ALTIMETER

SARA

Honeywell's Single Antenna Radar Altimeter (SARA) sets the new industry standard for increased accuracy, ease of installation, and improved reliability.



## PARTS COUNT

1 Line Replaceable Unit (LRU) vs. 6 components of traditional altimeter systems: 1 altimeter, 2 antennas, 2 cables and 1 optional tray



## EASE OF INSTALLATION/REPLACEMENT

8 screws and 1 connector; Approximately 15 minutes external removal and replacement



## IMPROVED RELIABILITY

>51,000 hours predicted Mean Time Between Failures (MTBF). Common failure mode of traditional systems is corrosion of RF cable to antenna interface. Interface in SARA is environmentally sealed



## COMPACT DESIGN

6.1 x 2.8 x 6.2 inches - excluding antenna assembly length and width (155 x 72 x 158 mm)



## SIGNIFICANT WEIGHT REDUCTION

Estimated 60% weight savings when compared to traditional altimeter systems: 4.2 lbs vs 7.73 lbs (1.90 kg vs 3.50 kg)



## IMPROVED SAFETY

Honeywell's Single Antenna Radar Altimeter doesn't lock onto heavy rain or bright spots



## INDUSTRY STANDARDS

FAA TSO-C87a, EUROCAE ED-30, DO-178C Level A, DO-254, DO-160G, ARINC 707-7b

## INTEGRATED MODULE CONTAINS:

Antenna, digital transmitter & receiver, dual path signal processor and power supply

Dual processing enables a single SARA to meet both CAT I and II landing requirements; dual SARA install will meet CAT III A, B and C landing requirements

## ALTITUDE RANGE:

0-2,500 ft. (installation height of 3 feet minimum)

Accuracy below 75 ft.:  $\pm 1.5$  ft.

Accuracy above 75 ft.:  $\pm 2.0\%$  of altitude

## ROLL & PITCH:

$\pm 40^\circ$  &  $\pm 30^\circ$

## LOW ELECTRICAL POWER DEMAND:

<15 watts

ITAR Free



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N61-2226-000-001 | 10/19  
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