UAVSale

S-band Single Polarization Doppler Weather Radar BM-200

MD-P00763 · md-s-band-single-polarization-doppler-weather-radar-bm-200

BM-200 single polarization fully coherent Doppler weather radar. It uses Doppler radar technology to obtain data such as distance, azimuth, reflectivity, and target speed, controls the radar work through software, and processes the obtained basic weather data to generate meteorological products. The

TECHNICAL SPECIFICATIONS

category	project / technical indicators / Remark
Performance	working frequency / 2700-3000MHz /
Antenna diameter	8.54m /
Radome diameter	11.9m /
Operating mode	A / precipitation, bad weather /
B	clear sky
Coverage / Precision / Accuracy	Reflectivity / Unambiguous range / 1 - 460Km /
Average diameter	Unambiguous speed range / ＞ 50m/s / When the spectral width is 4m/s and
to speed	precision / 1.0m/s / When S/N ＞ 8dB
Spectral width	precision / 1.0m/s / When the spectral width is 4m/s and
airspace	high / 21Km /
distance accuracy	50m / /
sampling interval	angle / 1 / /
distance	1Km / (1 - 230Km) / Reflectivity
detection capability	-7.5dB Ze / When S/N=0dB, the target is at 50Km
System Phase Noise	0.150 /
System dynamic range	85dB / reflectivity, speed
reliability	MTBF (mean time between failures) / RDA / 607 hours /
RPG	1000 hours /
PUPs	2000 hours /
complete machine	315 hours /
maintainability	MTTR (average repair time) / 0.5 hours /
MDT (max downtime)	RDA / 2 hours /

communication	1 hour /
availability	A (i) (inherent availability) / 0.989 /
A (a) (reachable availability)	0.986 /
environmental conditions	temperature / humidity / Work / Not working
indoor part	10 C - 35 C / 20% - 80% / -35 ℃ — 60 ℃ / 15% — 100 %
outdoor part	-40 ℃— 49 ℃ / 15% — 100% / -50 ℃— 60 ℃ / 15% — 100%
high	Altitude 3300m
wind	Antenna pointing accuracy 1/3 rms / Under steady wind 25m/s
1 rms	Under steady wind 50m/s
80m/s	Radome undamaged
precipitation	When working , the maximum instantaneous precipitation is 300mm/h and the wind speed is 18m/s
1 -hour average precipitation when not working	130mm/h wind speed 33m/s without damage
12 -hour average precipitation when not working	30mm/h wind speed 26m/s without damage
24 -hour average precipitation when not working	18mm/h wind speed 21m/s without damage

CERTIFICATION

Certification status is confirmed per order and is not published in the catalogue listing. Request the current declaration, test reports or conformity certificates from our sourcing team.

ORDERING INFORMATION

Model	S-band Single Polarization Doppler Weather Radar BM-200
Part number	MD-P00763
Lead time	30 days
Minimum order	1 unit
Supply	made_to_order

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