MORAD-P - PAR

MORAD-P is a precision approach radar representing the upgraded version of RP4/RP5 radar systems. It is intended for efficient approach control of aircraft at civil/military airports even within adverse weather conditions. The upgrade consists in radar overhaul including out-of-date components replacement for advanced ones. Antenna system and transmitter unit are excluded from refurbishment. Supplier guarantees the below specifications and MORAD-P service life for at least 10 years.

Upgrade purpose:

- ❑ Improvement of radar parameters
- ❑ Increase of system stability
- ❑ Fully digital radar signal processing
- ❑ Digital output of radar data
- ❑ Service life extension for more than 10 years

Designed for:

- ❑ Military / civilian airports

System features:

- Isothermal container incl. air conditioning based on environment-friendly filling agent
- Computer aided diagnostics and maintenance system provided by central processing unit
- Receivers with low-noise amplifiers
- AMTI signal processing
- Angle information circuits with electronic alignment of antenna
- Supervisor display of PAR data, SP/EXT control and diagnostics
- Digital output of radar data
- Remote control

Basic characteristics

Band	X
Transmitter	2x150kW pulse peak power, magnetron type
PRF	2000Hz (stagger 9:10:11)
Pulse Width	0,5 µs
Range	50 km
Antenna coverage	
- azimuth	
- vertical plane	-3° to + 15°
- horizontal plane	± 15°
- elevation	
- vertical plane	-1° to + 14°
- horizontal plane	-9° to + 9°
Range accuracy	20 m
Range resolution	80 m
Azimuth accuracy	0,03°
AMTI ground clutter suppression	>32dB
Primary data output	digital (synthetic raw video compression format)
Local tracker capacity	128 tracks
Data interface	LAN and link modem (optionally wireless comm.)
Voice communication	telephone AUT, intercom
Power supply	3x400V/50Hz max input power 10kW
UPS	10 min / standby mode without RF emission
Environmental conditions	-35°C to 50°C

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