

MORAD-L - 2D PSR

MLV3210

CSA952

MORAD-L is a 2D primary surveillance radar representing the upgraded version of RL4/RL5 radar systems. The upgrade consists in radar overhaul including out-of-date components replacement for advanced ones.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-L 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
- SSR and IFF integration capability

Designed for:

- Air traffic control at airports
- Air Defence applications

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 PSR data, SP/EXT control and diagnostics
- Digital output of radar data
- Remote control

Basic characteristics - Radar Unit

- | | |
|-----------------------------------|---|
| ▪ Band | S |
| ▪ Transmitter | 2x800kW pulse peak power, magnetron type |
| ▪ PRF | 600Hz (stagger 9:10:11) |
| ▪ Pulse Width | 2 μ s |
| ▪ Range | 200 km |
| ▪ Accuracy | |
| - range | 120m |
| - azimuth | 360°/10240 |
| ▪ Plot resolution | |
| - range | 300m |
| - azimuth | 1° |
| ▪ AMTI ground clutter suppression | >32dB |
| ▪ Plot time delay | max. 100ms |
| ▪ Track time delay | max. 300ms |
| ▪ Primary data output | digital (synthetic raw video compression format) |
| ▪ Plot/track data output | sync/async serial channel
data format - ASTERIX, or user defined |
| ▪ Local tracker capacity | 256 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 |

