LEONARDO Germany GmbH

METEOR 1700S

WEATHER RADAR

TECHNICAL DATA

Mode	Doppler, Dual-Polarization
Operating Frequency Range	2700 – 2900 MHz (S-Band))
Typical Operational Range/ Technical Range	400 km / 600 km
Maximum Doppler Velocity	± 146 m/s
System Phase Stability	≤ 0.05°
Transmitter Type	Klystron with solid state, IGBT-switched modulator
Peak Power	1000 KW
Noise Figure (Total Receiver)	≤ 2.0 dB

METEOR 1700S WEATHER RADAR

The METEOR 1700S uses cutting-edge klystron technology to optimize the forecasting of extreme precipitation and severe thunderstorms at long ranges. Its technological superiority is based on a highly sophisticated klystron transmitter, which delivers excellent data quality. The METEOR 1700S combines maximum clutter suppression capability with the inherent penetration power of S-Band transmission.

The powerful METEOR 1700S is typically employed in severe weather regions, where extremely heavy rainfalls pose a challenge to precise measurement and long range surveillance. Its outstanding performance and reliability have made the METEOR 1700S one of the most popular weather radar systems in this field of specialization.

METEOR 1700S HIGHLIGHTS

- Cutting-edge klystron technology

- Improvement of up to 15 dB in stability and clutter suppression compared to coaxial magnetron systems

- Improved data quality, scanning speed and range resolution through frequency agility and multi-trip echo recovery

- Less interference with other radio transmitters due to less occupied RF bandwidth

- Wide dynamic range receiver, based on Dynrex dual-channel implementation

- S-Band advantage: Optimized for long-range surveillance under conditions of extreme precipitation

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