



LEONARDO Germany GmbH

METEOR 1700C

WEATHER RADAR



TECHNICAL DATA

Mode	Doppler, Dual-Polarization
Operating Frequency Range	5600 – 5650 MHz (C-Band)
Typical Operational Range/ Technical Range	200 km / 600 km
Maximum Doppler Velocity	± 107 m/s
System Phase Stability	$\leq 0.05^\circ$
Transmitter Type	Klystron with solid state, IGBT-switched modulator
Peak Power	250 KW
Noise Figure (Total Receiver)	≤ 2.0 dB

METEOR 1700C WEATHER RADAR

Based on C-Band klystron technology, the METEOR 1700C offers the sophisticated weather detection and warning capabilities required in clutter-pollute environments. Its technological superiority is the result of a fully coherent system design, offering optimum detection capability with maximum clutter suppression.

The METEOR 1700C is streamlined for medium range applications and close to ground observations that are more impacted by ground clutter such as airport terminal usage and the specific needs of aeronautical users. In combination with Rainbow® 5, the most up-to-date software package available to meteorological users, the METEOR 1700C is optimized for the detection of hazardous weather phenomena including micro bursts, wind shear, and gust fronts.

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METEOR 1700C 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
- C-Band advantage: Optimized for high sensitivity in the medium range as required by aviation users