

Solar Series NDB Non Directional Beacon

COMPLIES WITH ICAO ANNEX 10, VOL. 1, PART 1, SECTION 3.4.



The Solar Series NDB offers the leading solution for an off-grid radio beacon. With over 40 years experience in the design, manufacture and delivery of non-directional radio beacons, the Nautel VR250 NDB is the world's first totally solid state, high power radio beacon. Using the most advanced Vector Series Transmitters and Antenna Tuning Units, the Solar Series NDB continues to be in demand as an economical, reliable solution for RNAV operations.

As a DC-powered NDB, the Solar Series NDB can be run directly from a solar power system, which increases efficiency and simplicity. As such, the Solar Series NDB is designed specifically for remote and off-grid locations. Each Solar Series NDB uses a custom designed MAPPS Solar Power System. The MAPPS system is engineered to offer the utmost reliability and autonomy, for any climate in any location.



SPECS

Solar Series NDB Non Directional Beacon

FEATURE BENEFITS

OFF GRID OPERATION

The Solar Series NDB enables reliable RNAV operations in remote locations. The system does not rely on external power, or diesel generators. As a result, it can be truly off-grid.

SAFETY FIRST

The Solar Series NDB is designed with Safety in mind. The solar power system is built with a minimum of 7 days autonomy, to ensure reliable operation in any weather. The optional dual transmitter ensures operation in rare chance of a technical fault. Remote monitoring solutions are available to confirm operation before dispatch.

COMPLIANCE

The Solar Series NDB meets ICAO requirements, and is built by the leader in broadcasting technology.

EFFICIENCY

The Solar Series NDB runs directly on the Direct Current power of the Solar Series MAPPS system, making it highly efficient and reliable. With no need to convert the power to/from Alternating Current, there is a significant improvement in efficiency and keeps costs to a minimum.

SPECIFICATIONS

GENERAL

NDB Features

Constant field strength output for higher system availability
Automatic resistance matching for higher system availability
Sophisticated graphic user interface (GUI) for easy maintenance and troubleshooting
Available in single or dual (main/standby with automatic changeover) configurations
Synthesized exciter uses advanced DDS technology to produce highly stable RF drive at operation frequency
Extensive automatic fault monitoring, with 256 event log
Extensive remote command/control and monitoring
High overall efficiency (70% or better) results in low power consumption and reduced operating costs

ELECTRICAL

Input Options

24V MAPPS Solar Power System
Solar Series Hybrid Power
System Generator (120VAC/230VAC)
Mains power (120VAC/230VAC)
Methanol fuel cell

MAPPS Features

Custom design for each location and application
Completely pre-wired with UL listed components
Weatherproof enclosures
100mph wind resistance
Engineering drawings and instructions simplify installation

ENVIRONMENTAL

Operating Temperature -30°C to +55°C

WARRANTY & LIFE EXPECTANCY

Warranty

Full system, 1-year warranty

OPTIONS

Optional control/monitoring of NDB site

