

# Nautel Vector Series

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Preliminary Specifications. Subject to change.

## Nautel, the world leader in Non-Directional Radiobeacon (NDB) transmitters

For 35 years Nautel has provided the lowest total cost of ownership by making reliable products and supporting them with the industry's best customer service. Now Nautel introduces the next standard in NDB transmitters: the Vector series. Our dedicated project team, with their thorough understanding of "the system", offers you equipment that has high system availability, fast troubleshooting, and helps you limit worker exposure to high RF fields.



Nautel Vector

## The Vector series dramatically improves system effectiveness.

Weather changes can dramatically affect antenna characteristics. This can result in serious VSWR fold-backs, or even an "off air" condition. Our designers looked at the transmission system as a whole for a way to solve this problem.

The Vector ATU can adapt to changing environmental conditions. By adding an auto resistive matcher and a communications bus between the transmitters and the ATU, Nautel designers allow the transmitter to adjust its output power to compensate for the change in the antenna. The result is a constant current in the antenna, which can dramatically increase your system effectiveness.

This automatic adjustment can also save you time and money as well as increase worker safety. By reducing the need for technicians to manually adjust the ATU settings, you reduce the number of trips to your transmission site. This also reduces worker exposure to strong RF fields, an important consideration for all RF site managers looking to follow the recommendations outlined in IEEE C95.1-1999 and Safety Code 6.

Another time saving feature is the addition of complete transmitter and ATU remote control and monitoring (RCM). RCM allows technicians to check equipment performance parameters either at the transmitter, or, at a network operation centre.

The Vector transmitter has been designed with the operating technician in mind.

With a well designed display-based user interface, system configuration is a breeze. Troubleshooting time is also reduced by providing a log of the last 128 events, with information detailed at the replaceable module level.

Vector's standard rack configuration allows for optional, fully redundant operation. The smaller footprint also reduces capital costs in new site construction. Redundant modules can be removed while the transmitter is still operating, greatly reducing down-time during troubleshooting and maintenance.

Our designers know that system requirements can change. If your system requires more range, the Vector's modular approach to power amplifiers gives technicians the flexibility to increase output power from 500 watts up to 2,000 watts, just by adding more power modules and upgrading the combiner.

## The Vector ATU boosts system performance

The Vector ATU comes with a variety of performance boosting options: a sunshield reduces thermal loading; a frequency change kit allows for flexibility in moving an ATU for use at a different site; an adjustable external series resistor which allows optimization of the trade-off between antenna efficiency and bandwidth.



Nautel Vector ATU-HP

