Southern Avionics Company

SE vs SA Series

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SA Series to SE Series NDB Transmitters

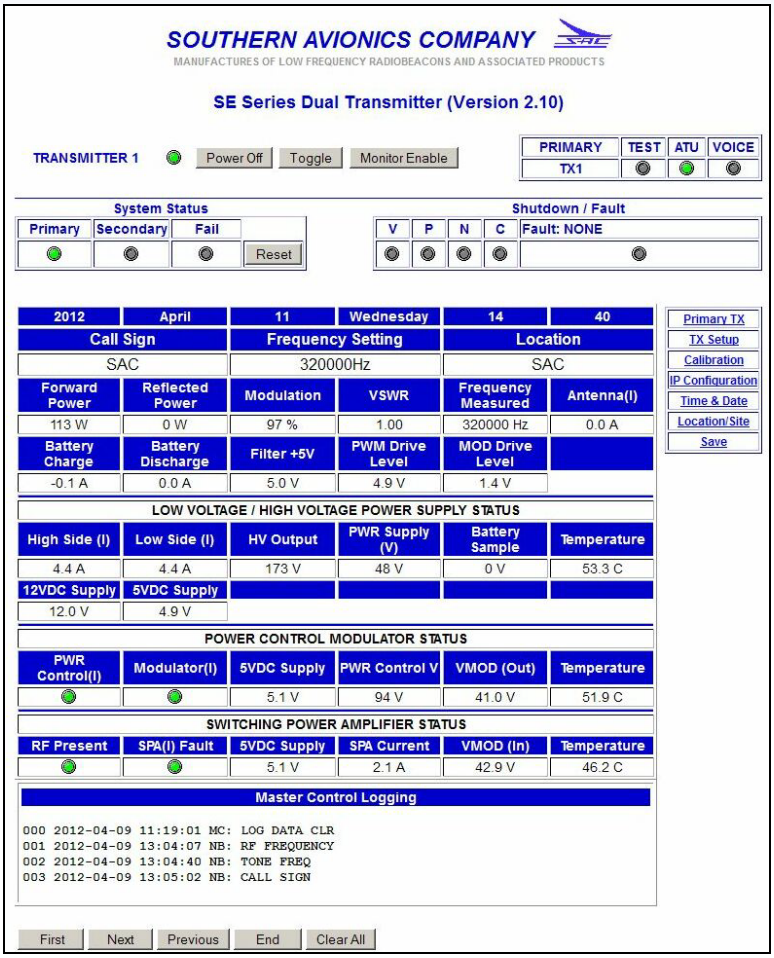
Improvements and Why You Should Upgrade

SA100 NDB

SE125 NDB

Specifications	SA100 NDB	SE125 NDB
Output Power in Watts	10 to 100	10 to 125
Frequency	Any within 190-625 kHz band, Also available in M and H band	Any within 190-650 kHz band, Also available in M and H band
Frequency Agility	Good/Internal; Adjustment required	Excellent/Easy
Power Agility	Fair/Internal changes required for large changes	Excellent/Easy
Ident Changes	Difficult	Easy
Power Output	100/250 Watts	125/250 Watts
Frequency Stability	(+/-10PPM)	(+/-5PPM), (+/-1PPM Optional)
Bands of Operation	190-535 kHz 535-1250 kHz 1500-1800 kHz	190-650 kHz (standard) 500-1250 kHz (mid) 1500-1800 kHz (high)
Harmonic Levels	Greater than 50dB down with Antenna Tuner	Greater than 70dB down with Antenna Tuner; 60dB below carrier out of transmitter
Keying Tones	400 or 1020 Hz	400 Hz, 1200 Hz, or User Programmable from 300-3000 Hz

Feature	SA100 NDB	SE125 NDB
Digital Display	✗	✓
Ethernet Capable	✗	✓
Auto-Tuning ATU	✓	✓
Able to use a variety of antennas	✓	✓
Dual Configuration Available	✓	✓
Built-In Test Equipment	✗	✓
Remote	✓ (Limited)	✓ (Full Capabilities)
Modulation ON/OFF	✗	✓
Modulation Percentage	✗	✓
Transmitter Power Level	✗	✓
Power Source AC/DC	✗	✓
Auto Reset from Shutdown	✓	✓
Mode Change	✗ (None)	✓ (Tone Off, Continuous Tone, ID or DGPS Mode w/Option)
Test Mode	✗	✓
Logging	✗	✓



Ethernet Control and Monitoring is available for all SE Series Transmitters. Our local and remote controlling options are easy to set up and even easier to use. The most convenient and efficient option is our Web Watch program. All transmitter functions are ***accessible either by PC or remote control, with a total of 8 different connection options***. A server or user-definable IP address is accessible by a local PC or an Ethernet connection. The transmitters are supplied with an embedded web server so there is no additional software to load. We have several connection options to fit your project's needs.

The SE Transmitter comes standard with an internal 5 Port Switch. There are two access points to the Switch. The first is a convenient external RJ45 port located on the front of the transmitter. This applies to both IP66 and Rack Mount enclosures. Rack Mount units have another RJ45 port located in the back of the transmitter. The second port for IP66 enclosures is a weather-proof access hole through the bottom of the transmitter. All 5 ports can be accessed here, once inside the unit.

Using the External RJ45 port, a user can connect a laptop or PC directly to the transmitter's switch. This gives access to our built-in Webwatch monitoring and control software. When connected to a network, the user can also directly connect to the unit for Internet access. This can be used to send a receive emails to the SAC tech department with troubleshooting questions or any other web functions.

The 5 Port Switch can be used to connect to a WiFi Network, Land Line Network, or any of our Ethernet Control and Monitoring Options or Remote Control Unit Connection Options.

Questions:

1. Can you monitor your transmitter from anywhere in the world?
2. Do you want a quick and easy installation, backed by quality support?
3. Do you have the most reliable transmitter on the market?
4. Do you want superior customer service and technical support?
5. Can you trust that your investment lasts for years to come?

Answers:

1. Ethernet Controlling and Monitoring is possible with the SE Series. Remote monitoring is also possible.
2. With an embedded web server, the transmitter needs no additional software load to be able to access by your local PC or Ethernet connection.
3. You can only answer yes if you own a model from our SE Series.
4. Our quality products are just as reputable as our service and support.
5. If correctly installed and optimized, our products have proven to last for years.

SE125 Dual Rack Mount

SE125 Single IP66 Enclosure

SE250 Rack Mount

SE500 and SE1000 also available