



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	✘	✓

SE Series Dual Transmitter (Version 2.10)

TRANSMITTER 1 Power Off

PRIMARY	TEST	ATU	VOICE
TX1	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>

System Status			
Primary	Secondary	Fail	
<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="button" value="Reset"/>

Shutdown / Fault				
V	P	N	C	Fault: NONE
<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

2012	April	11	Wednesday	14	40
Call Sign		Frequency Setting		Location	
SAC		320000Hz		SAC	
Forward Power	Reflected Power	Modulation	VSWR	Frequency Measured	Antenna(I)
113 W	0 W	97 %	1.00	320000 Hz	0.0 A
Battery Charge	Battery Discharge	Filter +5V	PWM Drive Level	MOD Drive Level	
-0.1 A	0.0 A	5.0 V	4.9 V	1.4 V	

- [Primary TX](#)
- [TX Setup](#)
- [Calibration](#)
- [IP Configuration](#)
- [Time & Date](#)
- [Location/Site](#)
- [Save](#)

LOW VOLTAGE / HIGH VOLTAGE POWER SUPPLY STATUS					
High Side (I)	Low Side (I)	HV Output	PWR Supply (V)	Battery Sample	Temperature
4.4 A	4.4 A	173 V	48 V	0 V	53.3 C
12VDC Supply	5VDC Supply				
12.0 V	4.9 V				

POWER CONTROL MODULATOR STATUS					
PWR Control(I)	Modulator(I)	5VDC Supply	PWR Control V	VMOD (Out)	Temperature
<input checked="" type="radio"/>	<input checked="" type="radio"/>	5.1 V	94 V	41.0 V	51.9 C

SWITCHING POWER AMPLIFIER STATUS					
RF Present	SPA(I) Fault	5VDC Supply	SPA Current	VMOD (In)	Temperature
<input checked="" type="radio"/>	<input checked="" type="radio"/>	5.1 V	2.1 A	42.9 V	46.2 C

Master Control Logging	
000	2012-04-09 11:19:01 MC: LOG DATA CLR
001	2012-04-09 13:04:07 NB: RF FREQUENCY
002	2012-04-09 13:04:40 NB: TONE FREQ
003	2012-04-09 13:05:02 NB: CALL SIGN

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.

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 Rack Mount



SE125 IP66 Enclosure



SE250 Rack Mount

SE500 and SE1000 also available