Due to our 47 years of experience, superior quality products, and commitment to long-term customer satisfaction,
Southern Avionics is recognized as one of the foremost manufacturers of NDB equipment in the world.

SE Indoor Rack Cabinet

SE 125 Specifications

(Meets applicable requirements of ICAO, FCC and FAA.)

| Type of Emission | NON, A2A, A3E (Optional) or an ination GID (with optional GPS beacon modulator) | | | |
|---|--|--|--|--|
| Frequency | 190-650 kHz Synthesized (field progra) meabdditional parts needed within the band. (optionally 190 to 1800 kHz in three system bands: 190-650, 650 to 1250, and 1500 to 1800 kHz). | | | |
| Power Output | 5 to 125 Watts | | | |
| Radiated HarmonicsRadiated harmonics are better than 63 dB below carrier. | | | | |
| Modulation | Switching modulator / regulator, 0-95%, internal 400 or 1020 Hz, eight baud Keyer, 5-15 WPM. | | | |
| Input Power | 85-264 VAC, single phase 47-63 Hz. or optional 48 VDC or both with switch over to batteries. Nominal input power is 180 Watts at 125 Watts carrier and keying at 95% modulation. | | | |
| Load Center / Battery Charger | Optional item provides AC and DComaintsbreaker, 10 Amp fast/float charge battery charger, and AC convenience outlet. Four (4) each 12VDC deep cycle marine type batteries will operate the SE125 at 85% power for 12 hours. | | | |
| Metering | Power output, reflected power, PA voltage, PA current, percent modulation. | | | |
| Working Conditions | Continuous unattended operation, -40° to +70°C, 0-100% non-condensing humidityn standard IP66 certified enclosure. SE125 is also supplied in 19 inch rack for indoor installation, or may be installed in customer's 19 inch rack. | | | |
| Monitoring | Automatic shutdown if tone, modubativeer or VSWR drift beyond a user adjustable level. With a dual system, a shutdown signal initiates a transfer from the primary transmitter to the secondary transmitter. | | | |
| Dimensions | SE IP66 Outdoor: 33" H x 21" W x 19" D (84cm x 54cm x 48cm) SE Cabinet Indoor: 30" H x 21" W x 17.5" D (76cm x 54cm x 44.5cm) | | | |
| | | | | |

SE Series Land Antenna Options

- Guyed Mast 50 ft (15.2m), 603ftm(1,500tf(27.4m), 12f0(36.6m), 140 ft (42.7m)
- Symmetrical T Antenna 60 ft ()1,833 Grift (27.4m), 120 ft (36.6m)
- Galvanized Steel T Antenna supports

SE Series Upgrade Options

- Ethernet Provides an intelligent interface powered by a Freescale Coldfire irrocessor. The interface provides an RJ45 jack to connect to a Local Area Network (LAN). Since the Ethernet option contains a web server, there is no software for the customer to load on their computed. Using a no webbrowser, simply enter the IP address of the SE transmitter and use the mousæto navigate to the various options of the SE transmitter.
- Ethernet Copper Extender Allows the user to exterid Enthernet remote up to mile (1.6 km) away using a conventional copperpreir. Ethernet converters are required at each end.
- Ethernet Fiber Extension Option Allows user to externed Ethernet Campility up to 1.2 miles (1.9 km) in multi Mode Fiber or up to 12.4 miles (20 km) in Single mode fiber. Fibe Interface is required at botts.end
- Serial Fiber Extender Extends the RS232 / RS485 port on the SE up to 2km/miles (4
- Monitor Alarm Receivers -Provides off the air monitoring of the NDB signal from remote locatin
- 48 VDC Load Center/Battery Chargers (see text on broch)ure
- DGPS MSK Interface -Provides the interface between the NDB and the DGPS modulator. The MSK signal from the DGPS Beacon Modulation to main carrier and different all correction data. The MSK signal is used to the main carrier and different all correction data. The MSK signal is used to the main carrier and different all correction data. The MSK signal is used to the main carrier and different all corrections are main carrier and different all corrections.

PC-1000C3 Auto-tuning Antenna Coupler

| Input Impedence | 50 Ohms | | |
|--|---|--|--|
| Load Impedence | 2 to 25 Ohms resistance, 200 to 1500 pF capacitance. | | |
| Frequency | 190 to 625 kHz (up to 1800 kHz depending on model), with a 200 to 1500 pF load. | | |
| Power Input | Up to 500 Watts peak, 100 Watts carrier | | |
| Metering | Antenna current and tuning. Single meter with four osition switch for OFF, TUNE, HIGH and LOW tuning. | | |
| Tuning | Large coil with coarse taps, fine taps and a rotating shorted ring controlled by the autotune system. | | |
| Lightning Protection Lightning gap at the antenna terminal. Special passive circuit that protects the transmitter final amplifier from lightning transients. | | | |
| Working Conditions | Continuous unattended operation, -50° to +70°C, 0 to 100% humidity. Designed for outdoor mounting. | | |
| Dimensions | 24.37" H x 21" W x 17.5" D (61.9cm x 53.3cm x 44.4cm) | | |