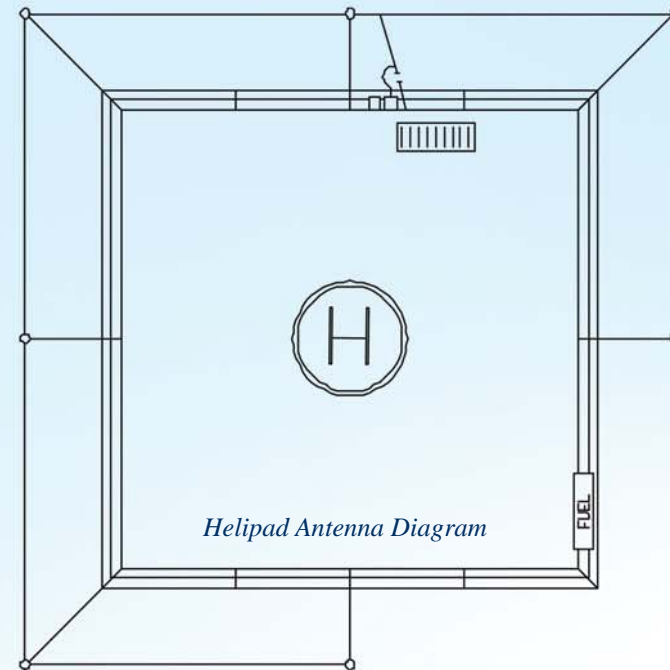


Southern Avionics NDBs are in use by Airports, Civil Aviation Authorities, and Offshore Platforms around the world!

SAC Services:

- Factory technical support team
- Site planning assistance
- Installation & Repairs
- Training courses



SE Series Add-Ons:

- IP66 Enclosure
- Remote Control Panel
- Audio PWB for Voice transmission
- Monitor/Alarm Receiver with Loop Antenna
- Battery Charger
- Prefabricated Shelters
- Anti-Ice Insulator system for Sym "T" Antenna

- Local Control Panel
- Remote Ethernet access
- Antenna Coupler
- Antennas
- Dummy Load
- Dummy Antenna
- Test Equipment



SE Outdoor IP66 Cabinet



SE Series

OFFSHORE



Southern Avionics Company

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Beaumont, TX 77726-5345 U.S.A.

Phone: (409) 842-1717 • Fax: (409) 842-2987
Email: sales@SouthernAvionics.com

www.SouthernAvionics.com

- Lower your operating and maintenance costs
- Easily monitored, either remotely or onsite
- Beacon operation is software controlled & monitored
- Ability to control multiple transmitters from one location
- Options available for Voice/AWOS, GPS, remote monitoring and maintenance, etc.

Bringing your pilots in safely for more than forty-seven years . . .



SE Indoor Rack Cabinet

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 125 Specifications

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

| | |
|-------------------------------|--|
| Type of Emission | NON, A2A, A3E (Optional) or any combination. GID (with optional GPS beacon modulator) |
| Frequency | 190-650 kHz Synthesized (field programmable), no additional 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 Harmonics | Radiated 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 DC mains circuit breaker, 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 humidity in 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, modulation, power 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 Offshore Antenna Options

- Helipad Long-wire Antenna
- Comrod® whip antenna
- 34 foot (11m) self-supporting Mast Antenna

SE Series Upgrade Options

- **Ethernet** - Provides an intelligent interface powered by a Freescale Coldfire Processor. This 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 computer. Using a normal web browser, simply enter the IP address of the SE transmitter and use the mouse to navigate to the various options of the SE transmitter.
- **Ethernet Copper Extender** - Allows the user to extend their Ethernet remote up to 1 mile (1.6 km) away using a conventional copper pair. Copper Ethernet converters are required at each end.
- **Ethernet Fiber Extension Option** - Allows user to extend their Ethernet Capability up to 1.2 miles (1.9 km) in multi Mode Fiber or up to 12.4 miles (20 km) in Single mode fiber. Fiber Interface is required at both ends.
- **Serial Fiber Extender** - Extends the RS232 / RS485 port on the SE up to 2.5 miles (4 km).
- **Monitor Alarm Receivers** - Provides off the air monitoring of the NDB signal from a remote location
- **48 VDC Load Center/Battery Chargers** (see text on brochure)
- **DGPS MSK Interface** - Provides the interface between the NDB and the DGPS modulator. The MSK signal from the DGPS Beacon Modulator contains the main carrier and differential GPS correction data. The MSK signal is used to generate the RF signal in low frequency (283.5 - 325 kHz) Radio Beacons.

PC-1000C3 Auto-tuning Antenna Coupler



PC-1000 Antenna Tuning Unit

| | |
|----------------------|---|
| Input Impedance | 50 Ohms |
| Load Impedance | 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 position 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) |

