



# Southern Avionics Company

## SE125 NDB Single Transmitter: IP66 Enclosure

Part Number: SLF33300

SPECIFICATION SHEET

5055 Belmont, Beaumont, TX 77707  
 Phone +409.842.1717 Fax +409.842.2987  
 sales@southernavionics.com



IP66 Weather Enclosure

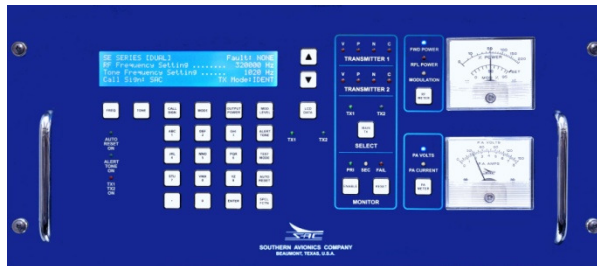
### Application:

The SE Series NDB Transmitter uses state of the art technology including a powerful Renesas© Microcontrollers and Analog Devices© Direct Digital Synthesizers to provide accurate beacon signals in power levels ranging from 10 Watts to 125 Watts carrier power.

The SE unit provides simplified set-up & maintenance procedures, comprehensive BITE, and full Ethernet capability accessible by both internal and external RJ45 connections. Connect directly from the transmitter to PC or through any of our other connection options (see page 2).

The SE125 comes with built in Webwatch software. Webwatch enables the user to control and monitor the transmitter on a laptop or PC. SAC provides the user with an IP address to access Webwatch using any Internet connection.

| FEATURE              | SPECIFICATION  |
|----------------------|--|
| Frequency            | 190-650 kHz digitally synthesized (Optionally 190-650, 650-1250, 1500-1800 kHz)  |
| Frequency Tolerance  | 1ppm TCXO Oscillator   |
| Power Output         | 10 - 125 Watts   |
| Noise and Hum Levels | More than 40 dB below the carrier level  |
| Spurious Emission    | More than 65 dB below the carrier level  |
| Type of Emission     | NON, A2A, A3E  |
| Modulation           | Switching modulator/regulator, 0-95%, internal 400 or 1020 Hz, eight baud Keyer, 8 character Identifier max length   |
| Input Power          | 100 - 264 VAC, single phase 47 - 63 Hz; Optional 48 VDC or both with switch over to batteries  |
| Antenna Connection   | Type-N female output   |
| Display              | 40 character by 4 line LCD   |
| Metering             | Power output, reflected power, percent modulation, PA voltage, PA current  |
| Monitoring           | Automatic shutdown if tone, modulation, power or VSWR drift beyond a preset level  |
| Interface            | Barrier block connector for user selectable RS232/RS485 for Remote Control Unit. RJ45 Ethernet Connection  |
| Working Conditions   | -40°C - +55°C, 0 - 95% Humidity  |
| Height               | 24 in. (61cm)  |
| Depth                | 18 in. (45cm)  |
| Width                | 21 in. (54cm)  |
| Weight               | 59 lbs. (27kg)   |
| Optional Equipment   | Solar Shield<br>Audio Interface<br>Timer Status<br>Transient and surge Protection Panel<br>Gas discharge tube protection<br>100 Watt Heater<br>Internal/External 50 OHM loads<br>Spare parts |



**Ethernet Monitoring and Control Options Include (All Ethernet options utilize the Webwatch Software):**

- Leased line Modem up to 12 miles (20km) (P/N SLF83301)
- Ethernet Fiber Extension: Up to 1.2 miles (1.9km) for multi-mode (P/N SLF83308) and 12.4 miles (20km) in single mode (P/N SLF83303)
- Ethernet Radio Link: utilizes IP67 transceiver and 5.8 GHz planar antenna to allow Webwatch monitoring up to 7 miles (11km) away. (P/N SLF83304)
- Ethernet Land Line Dial-Up: allows access of Ethernet network from any remote location over standard telephone lines. (P/N SLF83314)
- Ethernet Extender: allows extension of Ethernet communication network via a RJ11 terminate TELCO Network cable (P/N SLF83315)

**Remote Control Unit Options Include:**

- Remote Control Unit: Up to 4000 ft. via RS485 for full monitoring with basic controls. (P/N SLF33090)
- Remote Control Over Ethernet Radio Link: Combines both RCU and Webwatch Monitoring and Control; Up to 7 miles (11km) away (P/N SLF83323)
- RS485 to ST MM Fiber Converter: connect RCU to unit over Multi Mode Fiber; Up to 1.3 miles (2km) away (P/N SLF83319)
- RS485/RS232 to Ethernet Serial: allows monitoring and partial control via RCU using user's LAN (P/N SLF83322)

The SE125 IP66 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. The second is 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.

Internal View of 5 Port Switch

