

# SA300, 400, 500 and 1000 NDB Transmitter Series with Auto-tuning Coupler for:

Airports using Non-Directional Beacons for instrument approach.

Aviation Authorities such as FAA, CAA, Military, etc.



## SAC Services:

- On-site or telephone Technical Support
- Installation Supervision
- Training: Factory, on-site, and \*DVD courses
- Site Planning Assistance

\* coming soon

# SA Series

300/400/500/1000

# SAC

Southern Avionics Company

**Southern Avionics Company**

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



**Why buy from Southern Avionics? . . . Because we've been recognized as the foremost manufacturer of NDBs in the world for more than 45 years of superior quality production and relentless commitment to long-term customer satisfaction.**

Our Field Engineers are available to perform services for Southern Avionics® NDB's on Offshore Drilling Rigs, Platforms, Deep Sea Vessels and at Land installations - virtually world-wide.



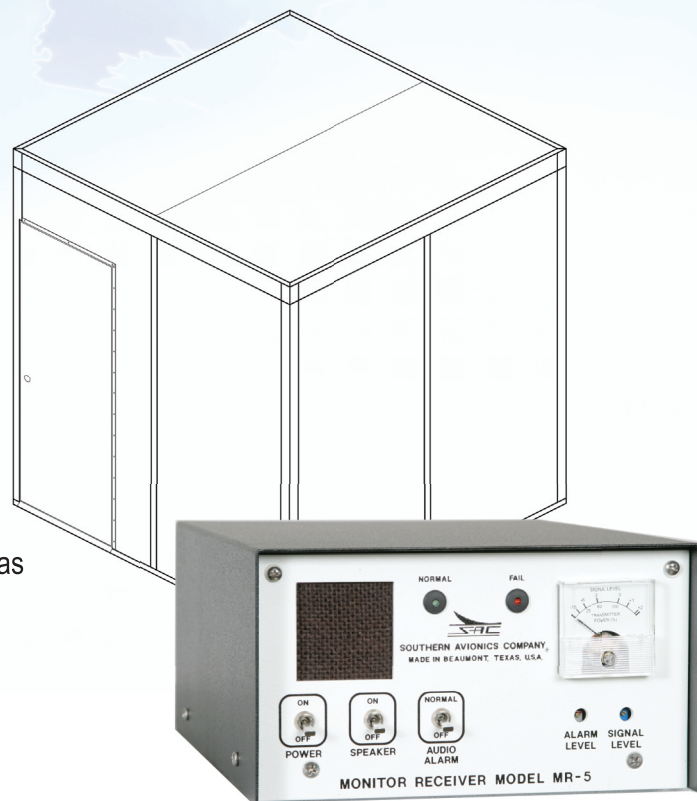
- On-Site Diagnosis and Repair
- Maintenance
- Equipment upgrades
- Installation oversight
- Site surveys
- Range calculations
- Site Acceptance Tests
- Site commissioning
- Participate in flight checks
- On-site Familiarization or in-depth Training Course
- Assistance in inspections by Federal Aviation Administration (FAA) or International Civil Aviation Authorities (ICAO)

FAA authorized staff are available.

Southern Avionics field service technicians have performed work in virtually every environment and area of the world and are the experts on our equipment.

**Accessories**

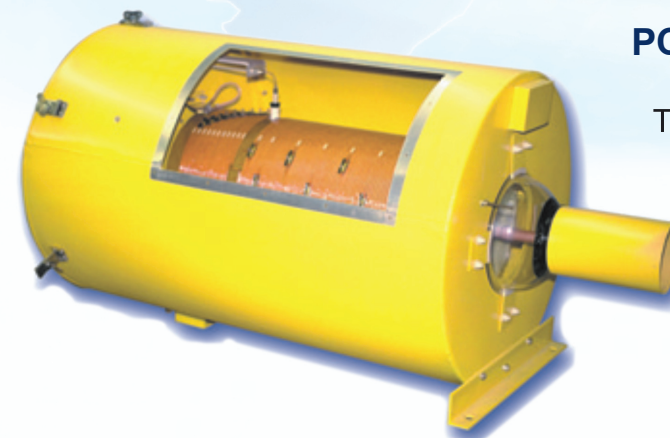
- Monitor Alarm Receivers
- 60 Foot Symmetrical "T" Antenna (300 to 500 Watt Systems)
- 90 Foot Mast Antenna (300 to 500 Watt Systems)
- Kilo Symmetrical "T" Antenna (1000 Watt Systems)
- 145 Foot Mast Antenna (1000 Watt Systems)
- 8' X 8' X 8' Prefabricated Shelter
- Anti-Ice Insulator System for Symmetrical "T" Antennas
- Obstruction Lighting Kit System for Symmetrical "T" Antenna Supports
- Obstruction Lighting Kit System for Mast Antennas
- 144VDC Load Center/Battery Charger (300 to 1000 Watt Systems)



**SA 300, 400, 500, 1000 Specifications**  
(Meets applicable requirements of ICAO, FCC and FAA.)

<b>Type of Emission</b>	NON, A2A, A3E (Optional) or any combination. GID (with optional GPS beacon modulator)
<b>Spurious Emission</b>	Radiated harmonics are more than 73dB (SA1000).
<b>Frequency</b>	190-535 kHz. Synthesized (field programmable), no additional parts needed within the band.
<b>Power Output</b>	300 - 1000 watts, (model dependent).
<b>Radiated Harmonics</b>	Radiated harmonics are better than 63 dB below carrier (100 watt model).
<b>Modulation</b>	Switching modulator / regulator, 0-95%, internal 400 or 1020 Hz, eight baud Keyer, 7 WPM.
<b>Input Power</b>	115/230V +/-15%, single phase 50 - 60 Hz. or optional 144VDC or both with switch over to batteries. Nominal input power is 1800W at 1000W carrier (SA1000) and keying at 95% modulation.
<b>Load Center / Battery Charger</b>	Optional item provides AC and DC mains circuit breaker, 10 Amp fast/float charge battery charger, and AC convenience outlet. Two (2) each 12VDC deep cycle marine type batteries will operate the SA100 at 85% power for 12 hours.
<b>Metering</b>	Power output, reflected power, PA voltage, PA current, percent modulation, audio input level.
<b>Working Conditions</b>	Continuous unattended operation, -50° to +70°C, 0-100% non-condensing humidity. Dimensions: 48" H x 21" W x 26" D (121.9cm x 53.3cm x 66cm)
<b>Monitoring</b>	Automatic shutdown if tone, modulation, power or VSWR drift beyond an adjustable level. With a dual system, a shutdown signal initiates a transfer from the primary transmitter to the secondary transmitter.
<b>Noise &amp; Hum Level</b>	> 40dB below 1000 watt carrier (SA1000).

**PC1Kilo Auto-tuning Antenna Coupler**



The PC1Kilo Antenna Coupler is designed to operate with our SA High Power 1000 Watt NDB transmitter. The coupler offers a wide tuning range while operating into the high power Symmetrical "T" antenna. This combination offers the greatest signal range of any other SA Series system offered by Southern Avionics.

**PC.5Kilo Auto-tuning Antenna Coupler**

The PC.5Kilo Antenna Coupler is designed to operate with our SA Series SA300, 400, & 500 models. Designed for outdoor mounting, this model offers continuous unattended operation in environments with ambient temperatures, -50° to +70°C, humidity up to 95%, and altitudes up to 4000 meters.

