



PC1000C3 Antenna Coupler

### Model PC1000C3 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, 200 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 auto-tune 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)

### SC Series Antenna Options

- **Guyed Mast** -- 90 ft (27m)
- **Symmetrical T** -- 60 ft (18m), 90 ft (27m)

### Field Engineer Services World-wide:

On-Site Diagnosis and Repair	Site surveys
Maintenance	Range calculations
Equipment upgrades	Site Acceptance Tests
Installation oversight	Commissioning



## SC200 Series



## Southern Avionics Company

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- Fully customizable
- Dual configurations
- Battery standby system
- RSIM/Transfer Control System
- Operation from 283.5 kHz to 325 kHz

\*Specifications and other information in this brochure are subject to change without notice.

*Our products are built on half a century of proven dependability...*



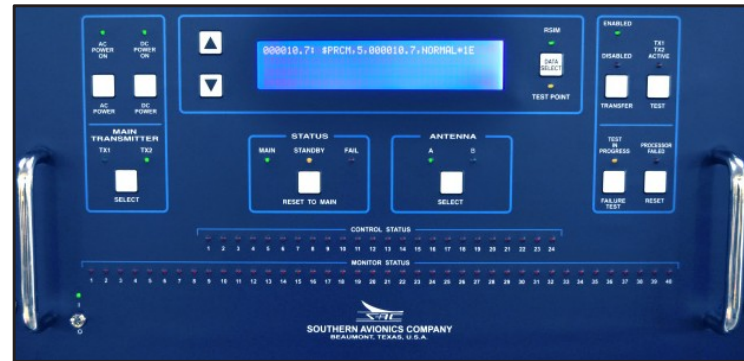
## Introducing the NEW SC200 Transmitter

The **SC200** is a differential Global Positioning System (DGPS) transmitter with carrier power adjustable from 10 - 200 Watts. The transmitter uses switching technology in the power amplifiers and modulator/regulator modules resulting in a highly efficient system. The exciter portion consists of an interface for a 283.5 to 325 kHz 5mW MSK sine wave signal.

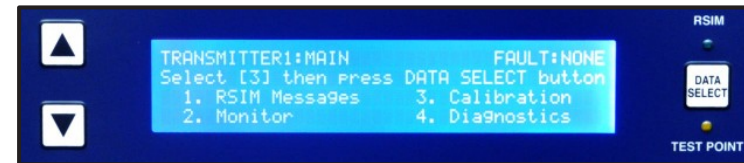
Each system has output filtering, switching power amplifiers, and switching modulators/regulators. The RF output of each system provides the 200 Watt signal to the Antenna Tuning Unit (ATU). The **SC200 Dual** consists of two independent SC200 transmitters, an automatic transfer unit and RSIM Controller housed in a single cabinet. The RSIM controller provides 24 control and 40 monitor states.

### Features

- Universal input power supply
- Integrated switching power inverters
- Front panel LCD
- Ethernet interface for monitoring and control
- Fully shielded RF assemblies
- Coaxial relays for RF transfer
- Sealed membrane keyboard
- Renesas microprocessor controller
- Enhanced software
- Reduced overall wiring
- Improved form factor
- User-friendly operability



SAC RSIM



The **SC200** also has the ability to operate with dual antennas and ATU's. Antenna selection is either done locally or through a RSIM command.

### SC200 Specifications

(Meets applicable requirements of ICAO and FCC.)

Type of Emission	NON, and G1D
Frequency	283.5 to 325 kHz
Power Output	Carrier power into 50 ohms continuously adjustable from 10 to 200 watts
Spurious Emission	More than 70 dB below the 200 watt carrier (measured at a dummy antenna)
Radiated Harmonics	More than 60 dB below the 200 watt carrier (measured at a dummy antenna)
Modulation	Switching modulator / regulator, 0-95%, internal 400 or 1020 Hz, eight baud Keyer, 7 WPM
Input Power	24VDC standard, 85 -264VAC (47-63Hz) or 127-170VDC optional
Circuit Protection	Individual fuses are used to protect the AC and DC circuits. A VSWR circuit shuts down the transmitter if VSWR exceeds an adjustable value
Metering	Forward power output, reflected power, PA voltage and PA current
Working Conditions	Continuous unattended operation, -40° to +70°C, 0-100% humidity Dimensions: 23" / 58 cm WIDE • 32" / 81cm DEEP • 78" / 198 cm TALL
Monitoring	Transmitter shuts down when power falls below an adjustable value, or when VSWR rises above an adjustable value. With a dual system, a shutdown signal initiates a transfer from the primary transmitter to the secondary transmitter



## KONGSBERG

### KONGSBERG DGNSS Reference Station

DRS 500 and IMS 500 are a new generation of DGNSS reference products. The products feature a new graphical user interface for real time operation and system control. The primary goal of the new HMI is for the operator to identify and react to critical situations effectively and safely. The DRS 500 and IMS 500 are fitted with state-of-the-art GNSS receivers supporting future signals.

### Features and Performance

- RTCM corrections at up to 1Hz
- Standard GPS corrections, type 1, 2, 3, 5, 6, 7, 9, 16, 27
- GPS RTK corrections, RTCM type 18, 19, 20, 21 (optional)
- GLONASS corrections, RTCM type 31 and 32 (optional)
- Compliant with: RTCM SC-104 ver. 2.3, RSIM ver. 1.2, IALA recommendation R-121
- RSIM messages for integrity monitoring
- Storage of raw-data for post-processing
- Pre- and post broadcast integrity
- Full remote control by direct or dial-up connection
- HMI based configuration



Kongsberg DRS 500 component

SC200

