

# Zero Power Consumption. Zero Problems.

# The **SG-211 MINI SMARTUNER**®



The SG-211 represents a revolution. You've never seen a tuner so light weight or so flexible. Never has there been one so easy to carry and use. And *never* have you seen one that will tune for 5 years on a single set of AA cells!

There is no need for a tune button or any other external control. Years of experience have taught us how to make it intelligent enough to do what you want it to do. It works with any transceiver and most antennas. It has a naturally balanced antenna output as well as an unbalanced output to allow you to use the antenna that best meets your needs.

Unlike some competing tuners with a limited tuning range of 6-800 Ohms, the SG-211 features a tuning range from .3 to 6000 Ohms. This gives you flexibility when choosing or erecting an antenna.

The MiniSmartuner is incredibly simple to use. Connect RF from your transceiver, connect your antenna, and you are on the air! No power connections, no control cables, nothing external is necessary. The SG-211 makes operating fun!

**TO LEARN MORE VISIT: [WWW.SGCWORLD.COM](http://WWW.SGCWORLD.COM)**  
**PHONE US AT: 800.259.7331**

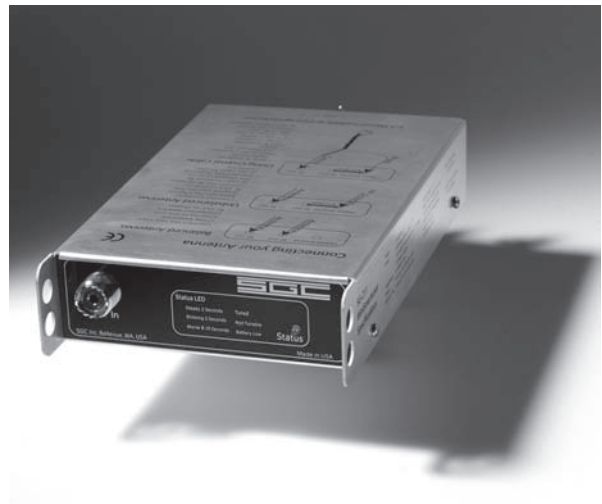
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# SGC

*Your HF Solution*

Setup on the SG-211 is so easy there is almost nothing to do. It comes with AA batteries already installed. All that you need to do is connect the coax from your transceiver, your antenna to the terminals on the back, and the SG-211 is ready to go.

The SG-211 automatic antenna tuner is unique in that it requires no external source of power. This means that the unit can be located remotely without the inconvenience of additional wires to provide power. In portable use the antenna tuner draws no additional power from station batteries.



The SG-211 is in an Aluminum Irridited case. RF comes in through an S0-239 connector on the front of the case and goes out through balanced and unbalanced connectors on the back. Internal construction is normal for portable or fixed location use. Corrosion resistant hardware and passive alloys are used throughout.



A wide variety of antennas can be connected to the SG-211. A set of wing nuts for connecting balanced or unbalanced antennas is provided on the back.

Optimum use of the SG-211 Smartuner is always to put it directly at the antenna feed point. This may require enclosing it in a waterproof container to protect it from the weather. Either a balanced or an unbalanced antenna can be connected directly to the wing nuts provided on the back of the coupler.

If the Smartuner must be used away from the antenna feed point, the best way to connect to the antenna is with balanced feed line. This can be connected to the balanced terminals on the back of the coupler directly. When it is not possible to use balanced feedline, then the antenna may be connected with coax.

HF Frequency Range:	1.8-60 Mhz
Power Input Range:	1-60 watts (PEP or CW) 1-30 watts (PEP) with short antennas below 3.5 Mhz 1-20 watts data continuous operation
Memory bins:	256
Impedance Range	.3-6000 ohms
VSWR:	Typically less than 2:1
DC Operating Range:	N/A (internal battery)
Input Current:	Zero
Random set time:	Average 2.5 seconds
Recurrent set time:	Less than 50 milliseconds
Antenna Length:	25 foot wire or whip from 1.8-60 Mhz 8 foot wire or whip from 3.5-60 Mhz
Installation:	Any position
Operating Temperature:	-30° to +60°C
Size:	8.66 inches X 4.69 inches X 1.55 inches
Weight:	1 lb
Case Construction:	Aluminum Irridited
Antenna types:	1. Whip 2. Backstay (marine, sail) 3. Dipole centerfed 4. Dipole with feedline 5. Loop (small) 2x2 multi turn 6. Loop (large) 10 ft. and up single turn 7. Longwire 8. Ladder feed 9. Coaxial Fed Antennas
Power Source:	4 internal AA batteries lasting 5 years **
Front Panel Connections:	S0-239 RF Input Connector
Rear Panel Connections:	Balanced and Unbalanced Wing Nuts
Indicators:	1 Red LED on Front Panel: Steady for 2 seconds when tuned Blinking for 2 seconds when not tunable Morse B for 10 seconds when battery low

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