



SS11 High Sensitive Field Strength Meter



USER'S MANUAL

General

The Model SS11 Relative Field Strength Meter is an ultra sensitive, broad-band instrument for checking relative RF field intensity. Its nonreactive circuit utilizes modern solid state technology to detect even the faintest RF signal. The Model SS11 is very easy to operate and its light-weight and compact design make it equally useful for bench or field operation.

Purpose and Function

The Model SS11 Relative Field Strength Meter was designed to detect even the slightest radiated RF signals. Its use is primarily for the tuning of antennas and output stages of base or hand held transceivers. It can also be used to adjust the output of garage door openers, radio control transmitters or other transmitting devices with frequencies within the 100KHz to 3000 MHz frequency range.

The best part of using it is that you now can tell if your antenna is radiating or not by simply holding the unit near your antenna and adjusting the sensitivity. Also, by taking measurements, you can find out relatively how strong your antenna field is. Operation The SS-11 Field Strength Meter is very simple to use. It requires Amp run the meter.

Simply raise the single whip antenna on your unit, stand several feet away, and adjust the sensitivity knob on the front, it's that easy.

You want to ensure that the whip antenna is parallel with the polarity of the antenna you are reading.

Now you can read the relative field strength of your antenna.

Technical Assistance If you have any problem with this unit first check the appropriate section of this manual. If the manual does not solve your problem or your problem is not solved by reading the manual you may call SURECOM Technical Service at +852-54457217. You will be best helped if you have your unit, manual and all information on your station handy so you can answer any questions the technicians may ask. You can also send questions by E-mail to SURECOM.COM.HK

Features:

The appearance is simple and efficient, beautiful and generous.

Frequency bandwidth, high sensitivity. 100KHz-3000MHz (with antenna), please use different frequency antennas to test signals with different frequencies for better effect and sensitivity)

The pointer amplitude can be adjusted (to protect the meter)

Built-in automatic damping function, which is the buffer function, prevents the needle from swinging too fast to cause damage.

Key Specifications:

- Test suitable antenna for walkie-talkie use
- Frequency bandwidth, high sensitivity. 100KHz-3000MHz
- Measurement Radio Field Strength
- The pointer amplitude can be adjusted (to protect the meter)
- High sensitivity.

Specifications:

Model No.	SS11
Frequency Range:	100KHz -3GHz
Battery :	Li-ion 3.7V 200mAh
Size without Socket :	75 x 100 x 64mm
Antenna (in) Interface:	SMA Female
Net Weight :	240g (not include antenna)

Package include

- 1x SS11 Field Strength Meter
- 1x Micro USB Cable
- 1x SMA MALE Telescopic Antenna
- 1x English Instructions

Instructions for use:

Before use, please rotate the "amplitude adjustment" to the left most end. The length of the antenna to be pulled depends on the frequency of the test. It is better to have 1/4 wave as much as possible. The handheld walkie-talkie is about one meter away from the field strength meter. Don't be too close! In order to avoid the signal is too strong to burn the field strength meter! Then press the walkie-talkie PTT button to make the walkie-talkie enter the launch state. At this time, the pointer of the field strength meter should have a signal indication. The stronger the signal, the greater the indication!

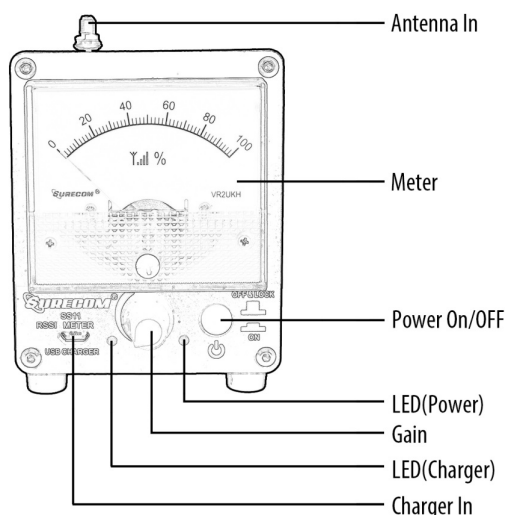
Amplitude adjustment: If the field strength indicator indicates that the maximum range is exceeded, the "amplitude adjustment" can be adjusted to let the pointer indicate the appropriate position.

Method for testing the maximum gain point of an antenna

1. In order to change the frequency conveniently and quickly, you should use the keyboard to set the frequency walkie-talkie manually.

2. Link the walkie-talkie and antenna feeders, place the field strength meter near the antenna (depending on the environment), place it within the vertical radiation angle of the antenna as much as possible, and the antenna planning method is best.

3. Set the frequency of the walkie-talkie, press the launch button, observe the meter reading, and register the meter reading. Then set the walkie-talkie to other frequency points, let the walkie-talkie enter the launch state again, observe the meter reading and then compare the readings of each frequency point! You can know the best frequency/segment of the antenna under test!



A high sensitive and reliable rf field strength meter is an invaluable instrument in amateur radio and in radio controlled model area. A field strength meter is used to align an antenna to get the best possible gain, to determine the transmitting range of radio controllers ...

Designing the rf field strength meter to be sensitive it is a requirement because there must be as many wavelengths as possible between the meter and the transmitter, the measurement can be done without using a stronger carrier signal and most of the radio controllers are of low power type.

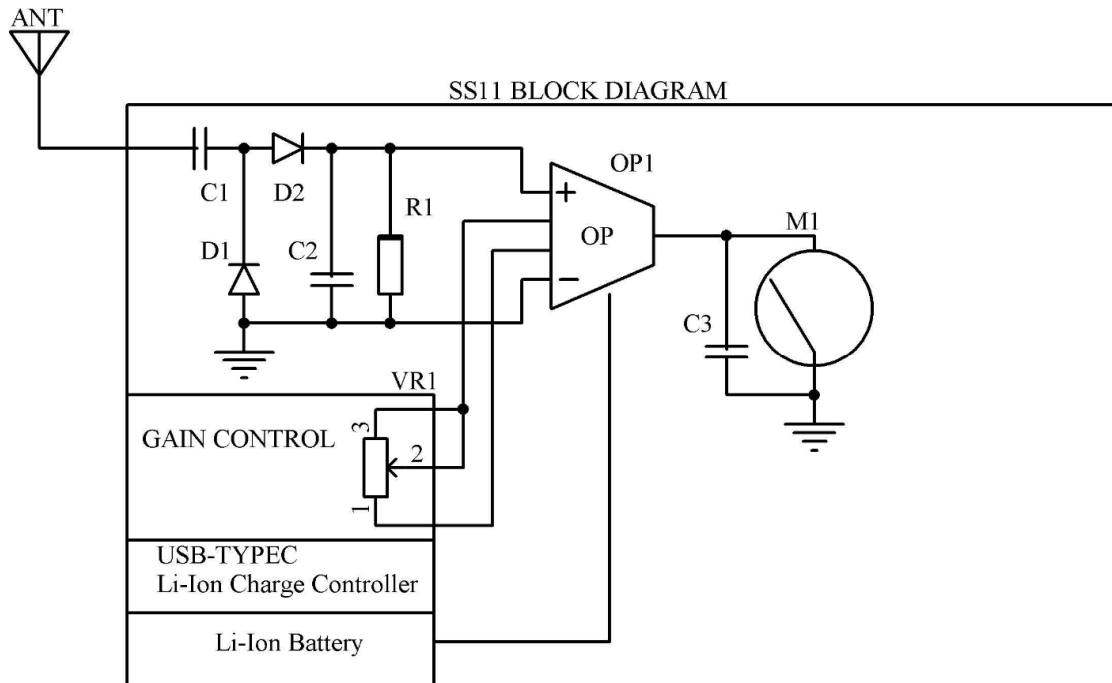


Figure.1

Meter and Transmitters

Transmitter Power (W)	Distance (meters)
0.1	0.1-1
2-8	1-3
10	2-5
50	3-10



Test sensitivity:

