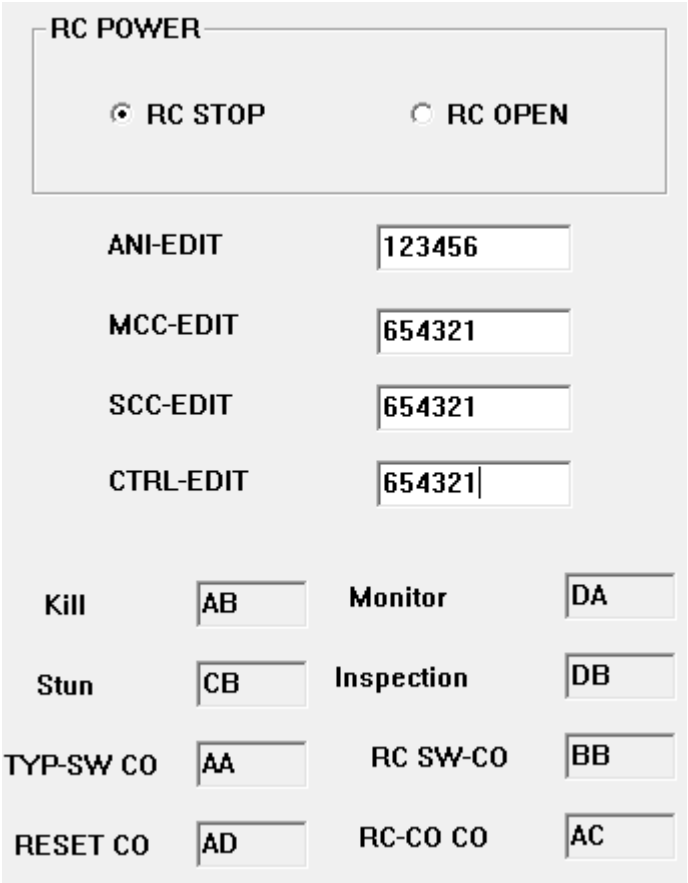
KG-1000G Remote Control

The Remote Control function allows some settings of the KG-1000G to be modified remotely. The remote control function must be configured using the PC programming software, and the radio used to control the KG-1000G remotely must have DTMF support.

How to activate Remote Control

Open the Wouxun PC programming software and select the Remote Settings tab. You will be see the following configuration information:



The RC POWER section determines if the radio will allow a remote power on/off request.
RC OPEN - If selected, the radio will accept remote power on/off requests.
RC STOP - If selected, remote power on/off requests will not be accepted.

The MCC-EDIT, SCC-EDIT and CTRL-EDIT values are control codes that determine the radio has the authority to control other radios remotely, if the radio will allow requests to be controlled remotely, and if settings should be allowed to be changed remotely.

The control code is a value that you determine. The number is only important in that it must match on the controlling and the controlled radios. The control code must be between 3-6 digits and cannot begin with 0.

ANI-EDIT: The ANI (ID) of the radio. This setting has uses other than within the remote control function and can be changed via the radio menu also (see MENU 15). Generally when using radio IDs each radio in your group should have a unique value. However for remote control the controlling radio will need to update the ANI to match the ID of the radio to be controlled.

MCC-EDIT: If the radio will have the authority to control other radios, enter a control code in this field. To disable this radio from controlling other radios, enter 000000. The radio to be controlled must have the same code entered into its SCC-EDIT and/or CTRL-EDIT fields.

SCC-EDIT: If the radio will accept requests to be controlled remotely, enter a control code in this field. The controlling radio must have the same code entered into its MCC-EDIT field.

CTRL-EDIT: If the radio will accept requests to have settings changed remotely, enter a control code in this field. The controlling radio must have the same code entered into its MCC-EDIT field.

In the example configuration in the graphic above, the radio is configured to allow all remote control functions and to perform remote control, as the control code is set to the same valid value (654321) for all three fields.

Stun, Kill, Monitor and Inspect

The following details how to perform the Stun, Kill, Monitor, and Inspect remote control functions. These functions cannot be activated while a transceiver is in repeater mode.

In the following example, assume a SCC of 654321 and a ANI of 123456 have been configured in the programming software.

Stun
Stun prevents a radio from transmitting.

To activate the stun function on a remote radio, perform the following steps. From the controlling radio, transmit a DTMF sequence matching the following: MCC + CB (DTMF stun code) +ANI. Using our example, the transmitted sequence would be: 654321 CB 123456. On the controlled radio, if the received MCC matches the SCC and the ANI matches the stun function will be activated.

To reactivate a stunned radio, send the stun sequence again.

Kill
Kill prevents a radio from transmitting or receiving.

To activate the kill function on a remote radio, perform the following steps. From the controlling radio, transmit a DTMF sequence matching the following: MCC + AB (DTMF kill code) +ANI. Using our example, the transmitted sequence would be: 654321 AB 123456. On the controlled radio, if the received MCC matches the SCC and the ANI matches the kill function will be activated.

To reactivate a killed radio, send the kill sequence again.

Monitor
Monitor opens the microphone on a remote radio, forcing the radio to transmit for 15 seconds. No input is needed on the remote radio.

To activate the monitor function on a remote radio, perform the following steps. From the controlling radio, transmit a DTMF sequence matching the following: MCC + DA (DTMF monitor code) +ANI. Using our example, the transmitted sequence would be: 654321 DA 123456. On the controlled radio, if the received MCC matches the SCC and the ANI matches the monitor function will be activated for 15 seconds.

Inspect
Inspect forces the remote radio to transmit a DTMF sequence. This is useful for confirming that the radio is in range and is responding to commands.

To activate the monitor function on a remote radio, perform the following steps. From the controlling radio, transmit a DTMF sequence matching the following: MCC + DB (DTMF inspect code) +ANI. Using our example, the transmitted sequence would be: 654321 DB 123456. On the controlled radio, if the received MCC matches the SCC and the ANI matches the inspect function will be activated.

Remote Power On/Off

The KG-1000G can be powered on and off using remote control. To enable the transceiver to be powered on and off remotely, the RC OPEN setting must be selected in the programming software, a control code entered into the SCC-EDIT field and an ANI must be configured.

In the following example, assume a SCC of 654321 and an ANI of 123456 have been configured in the programming software.

Remote Power Off

Remote power off can be activated by manually sending the DTMF sequence: SCC + BB (DTMF power on/off code) + ANI. Using our example, the transmitted sequence would need to be:

654321 BB 123456.

After powered off remotely, the standby orange indicator LED will be activated. To manually power on the radio after it has been powered off remotely, press the front panel power button twice.

Remote Power On

The transceiver can be powered on remotely by manually sending the DTMF sequence: SCC + BB (DTMF power on/off code) + ANI. Using our example, the transmitted sequence would need to be: 654321 BB 123456.

Please Note! If using a control code or ANI that is less than six characters, it will need to be terminated using a '#'. For example, if the SCC above were 654 and the ANI were 123, the following would need to be sent instead: 654# BB 123#.

Remote Setting Changes

The KG-1000G provides the ability to change several settings remotely including the frequency or channel number of the non-active area, the transmit power, and the RX CDCSS or DCT tone.

To enable the transceiver to have these settings changed remotely, remote control mode must be activated through the radio menu and a control code entered into the CTRL-EDIT field of the programming software and an ANI must be configured.

In the following examples, assume a CTRL code of 654321 and an ANI of 123456 have been configured in the programming software.

Activating Remote Control

To activate remote control mode on the radio to be controlled, go to the RC-SW menu option (menu 44) and select ON. The radio will reboot and the keypad will be locked.

From the controlling radio, transmit a DTMF sequence matching the following: CTRL + AC (DTMF remote control code) then release the PTT. Using our example, the transmitted sequence would be: 654321 AC.

A beep is heard on the controlling radio confirming that remote control has been activated.

Note: If the controlled radio does not receive a DTMF tone from the controller within 30 seconds, the connection will be automatically exited. The controlling radio can also exit the connection by transmitting 9+9.

Changing the frequency remotely

The KG-1000G will allow the frequency of the non-active area to be changed remotely, provided the new frequency is not in the same band as the active area frequency. For example, if the active area frequency is UHF, the new frequency sent remotely must be VHF.

To change frequencies remotely, first refer to the section above to activate remote control mode.

With remote control mode successfully activated, hold the controlling radio's PTT and press 0 + 1 + Frequency (total of 8 digits) and then release the PTT. For example, to change to frequency 162.450, enter: 0 1 16245000.

A beep is heard on the controlling radio confirming that the command was received. The controlled radio will reboot and adjust the frequency to match the command. If no beep was heard, the command failed.

Changing the channel remotely

The KG-1000G will allow the channel of the non-active area to be changed remotely, provided the new channel is not in the same band as the active area frequency. For example, if the active area frequency is UHF, the frequency of the new channel sent remotely must be VHF.

To change channels remotely, first refer to the section above to activate remote control mode.

With remote control mode successfully activated, hold the controlling radio's PTT and press 0 + 2 + Channel number (total of 3 digits) and then release the PTT. For example, to change to channel 22, enter: 0 2 022.

A beep is heard on the controlling radio confirming that the command was received. The controlled radio will reboot and adjust the frequency to match the command. If no beep was heard, the command failed.

Changing the transmit power remotely

The KG-1000G will allow the transmit power of both areas to be changed remotely. The power change is only temporary. After the radio is rebooted the power will return to the original setting.

To change transmit power remotely, first refer to the section above to activate remote control mode.

With remote control mode successfully activated, hold the controlling radio's PTT and press 0 + 4 + 1 (low power) / 2 (medium) / 3 (high) and then release the PTT. For example, to change to high power, enter: 0 4 3.

A beep is heard on the controlling radio confirming that the command was received. If no beep was heard, the command failed.

After changing the setting, you will need to exit remote control mode on the controlled radio. Hold the controlling radio's PTT and press 9+9 and then release the PTT. The controlling radio will beep and show the ANI of the controlled radio, confirming remote control mode has been successfully exited.

Changing the CTCSS tone remotely

The KG-1000G will allow the RX CTCSS tone of both areas to be changed remotely. The tone change is only temporary. After the radio is rebooted the tone will return to the original setting.

To change RX CTCSS tone remotely, first refer to the section above to activate remote control mode.

With remote control mode successfully activated, hold the controlling radio's PTT and press 0 + 5 + (four digit CTCSS tone) and then release the PTT. For three digit tones, add a leading 0. For example, to change to tone 67.0, enter: 0 5 0670.

A beep is heard on the controlling radio confirming that the command was received. If no beep was heard, the command failed.

After changing the setting, you will need to exit remote control mode on the controlled radio. Hold the controlling radio's PTT and press 9+9 and then release the PTT. The controlling radio will beep and show the ANI of the controlled radio, confirming remote control mode has been successfully exited.

Changing the DCS tone remotely

The KG-1000G will allow the RX DCS tone of both areas to be changed remotely. The tone change is only temporary. After the radio is rebooted the tone will return to the original setting.

To change RX DCS tone remotely, first refer to the section above to activate remote control mode.

With remote control mode successfully activated, hold the controlling radio's PTT and press 0 + 6 + (four digit DCS tone) and then release the PTT. The first digit should be 0 for a positive code and 1 for a negative code. For example, to change to tone D023N, enter: 0 6 0023. To change to tone D023I, enter: 0 6 1023.

A beep is heard on the controlling radio confirming that the command was received. If no beep was heard, the command failed.

After changing the setting, you will need to exit remote control mode on the controlled radio. Hold the controlling radio's PTT and press 9+9 and then release the PTT. The controlling radio will beep and show the ANI of the controlled radio, confirming remote control mode has been successfully exited.