

Tone Remote Keying

The C Plus is an encoder and a decoder. It is capable of encoding acknowledgments to critical messages and can send numerous different dispatch originated messages. But in a tone remote system, there is no local key line for the C Plus to toggle to activate the remote transmitter. In this situation, the C Plus Tone Remote Keying feature would do the trick. With this feature, when the C Plus needs to activate the remote transmitter, it will output the tone keying sequence and a user selectable function tone.

Keying Sequence:

The keying sequence for tone keying is 125ms tone burst of 2175 Hz at 0dBm followed by a function tone for a period of 40ms at -10dBm followed by a 2175 Hz tone at -20dBm for duration of key time.

Function Tone:

The function tone is programmable to be one of the following: 2050, 1950, 1850, 1750, etc. down to 950. The user selects which of these to implement when setting up the personality of the C Plus.

Enabling the Feature:

The Tone Remote Keying feature is enabled in the C Plus personality programming. Under "*Define Radio Interface*" select "*Transmit Mode*" then select "*Tone Remote*".

Special Requirements:

The optional feature "Tone Remote Keying" must be purchased and activated. Contact Cimarron Technologies for information.

Additional Information:

When tone remote keying is enabled, the maximum output data level into a 600 ohm balanced load is -2dbm instead of 10dbm. This allows a more flexible range of tone level vs data level. When adjusting transmit levels, adjust the data level first using potentiometer VR5. Then adjust the tone level from the setup menu.

The maximum attack delay available in Tone Remote mode is 3 seconds (3000ms).

See Also:

Encode Capability