

1. ALIGNMENT

The alignment features of the PT5 are all accessible through the configuration menu. The following procedures assume the transmitter is a working module connected with an appropriate power supply and modulation source, with the RF output connected to suitable test equipment capable of accurately measuring conducted RF power, deviation and frequency.

To enter the alignment programming menu:

1. Connect the transmitter via an RS232 cable to a PC running a terminal program with the PC serial port set to 19200,8,n,1
2. In the PC terminal program type "factory" and press enter, then enter password the password protected factory menu should appear.
3. Type "D" to enter the diagnostics menu, then type "+" to enter the factory menu.

1.1. *Power adjustment*

When in the factory main menu

1. select option 1,2 or 3 in the menu, this activates the transmitter so the output power can be measured.
2. Use the "+" and "-" keys to adjust deviation value for the chosen parameter
3. Use the "Esc" key to return to the factory menu.

The power level used during transmission is selected in the Radio Characteristics menu.

1.2. *Deviation adjustment*

When in the factory main menu and with a modulation source applied.

1. select option A to enter the Audio/Data Control Menu.
2. Select the menu item appropriate to the mode of operation.
3. Select the menu item appropriate to the deviation parameter to be adjusted
4. Use the "+" and "-" keys to adjust deviation value for the chosen parameter
5. Use the "Esc" key to return to the factory menu.

1.3. *Frequency offset Adjustment*

When in the factory main menu and with NO modulation source applied.

6. Select option A to enter the Audio/Data Control Menu.
7. Select option X to enter VCTCXO center frequency adjustment, this activates the transmitter so the frequency offset can be measured
8. Use the "+" and "-" keys to adjust the offset value
9. Use the "Esc" key to return to the factory menu.