MAXON

ACC-900E

Programming Manual

2008-09-05

1. SYSTEM REQUIREMENTS

(1) CPU: Intel Pentium2 or higher(Pentium3 or higher recommended)

(2) Operating System: Microsoft Windows 98, ME, 2000, XP, Vista

(3) Communication: Serial COM Port(9pin)

(4) Program Cable: ACC-2125

(5) Squelch Program Cable: TAC-101D

(6) DC Power Supply: 9~15V(200mA)

(7) Equipment Setup

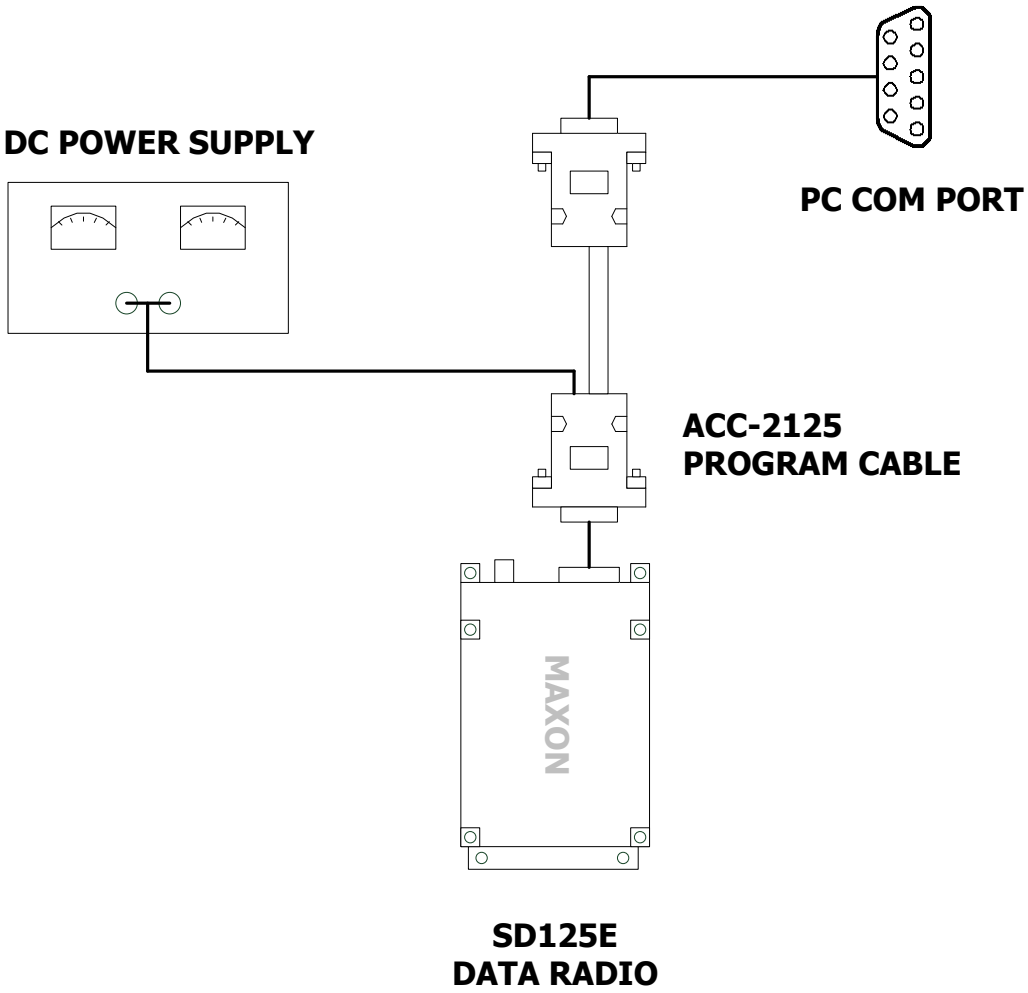


Figure 1 Equipment Setup for Program

2. HOW TO INSTALL ACC-900E

(1) Language Selection: The following dialog appears if you run the install file(SD125E_Prog(v1.xx).exe).

Figure 2 Install: Language Selection Window

(2) Install Start Page: Click 'Next' to continue.

Figure 3 Install: Start Page

(3) Install Location Setting: The default destination folder is 'C:\Program Files\SD125E'. Click 'Browse' and select another folder if you install in a different folder.

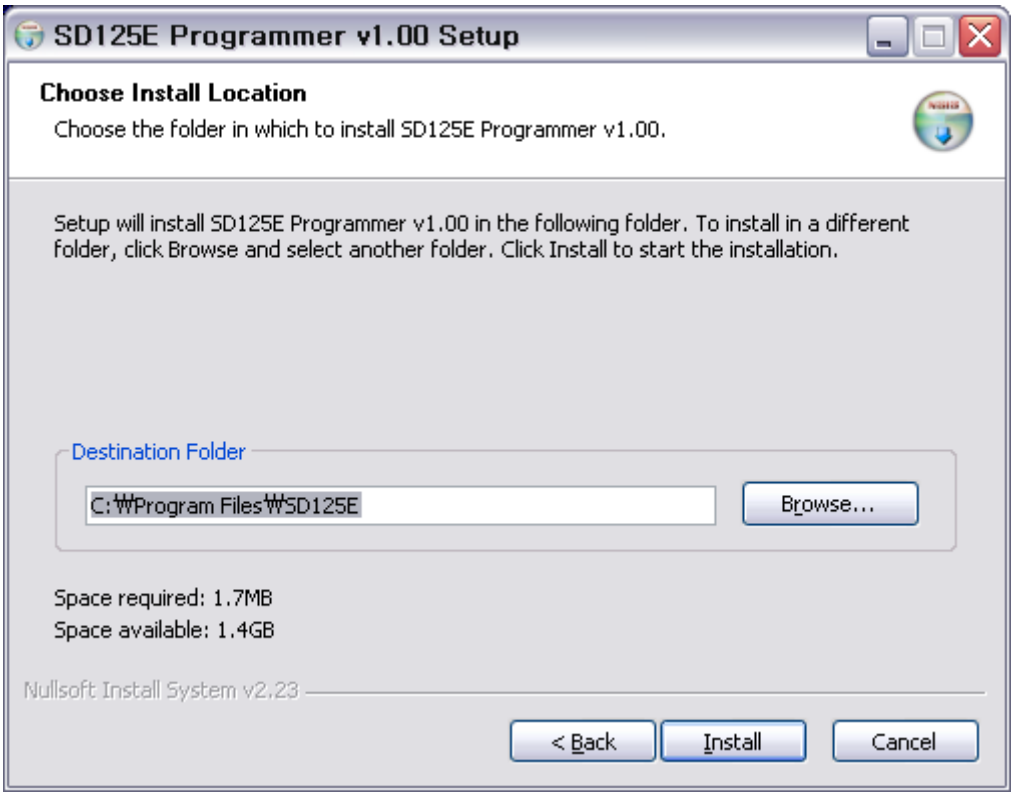


Figure 4 Install: Destination Folder Selection

(4) Install: Programmer is installed to PC if you click 'Install' button.

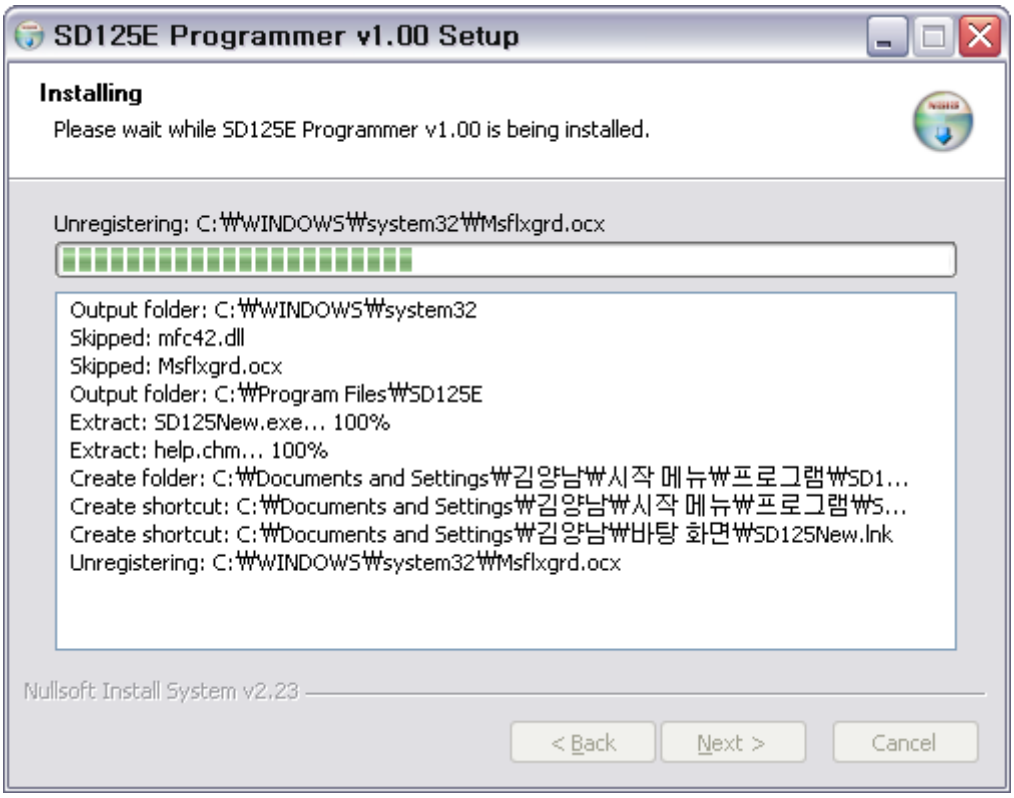


Figure 5 Install: Progress

(5) The following page appears if the install process is finished successfully. Now, you can run ACC-900E Programmer to program SD125E and SD125.

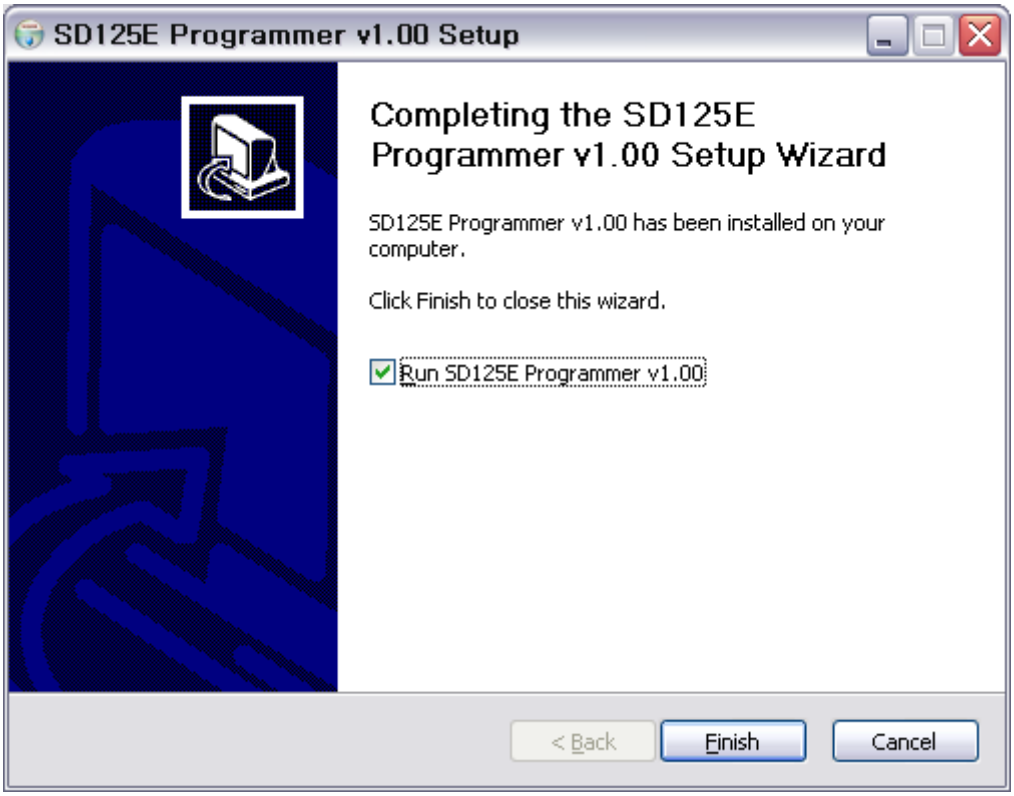


Figure 6 Install: Complete

3. MODEL SELECTION

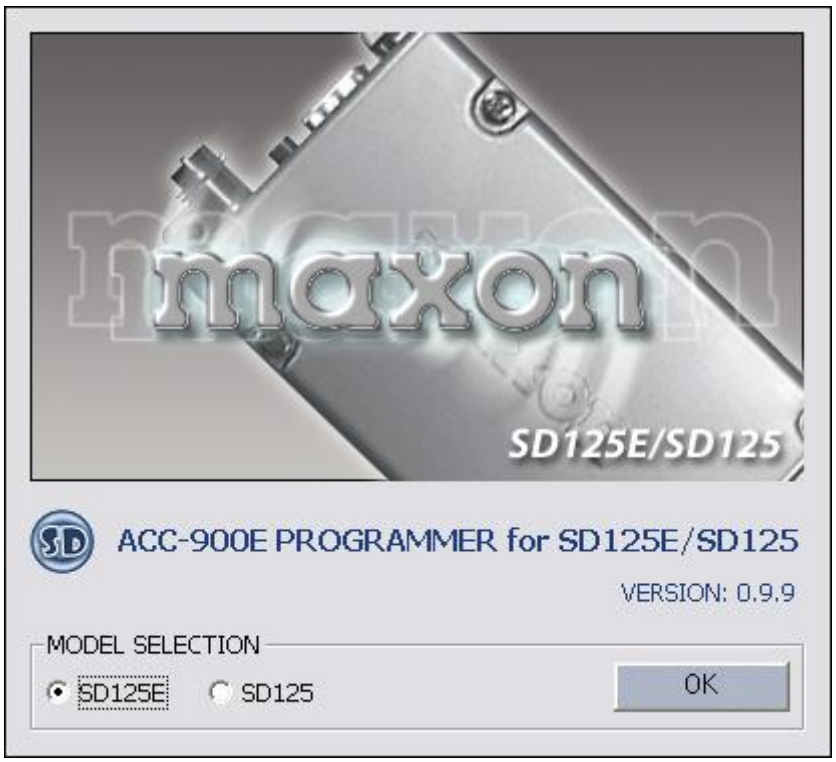


Figure 7 Model Selection Window

You can select a model between SD125E and SD125 through the model selection window.

4. BAND SELECTION

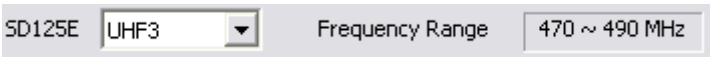


Figure 8 Band Selection

The range will be showed if you change the band. Programmer will show an error message if you input out of this frequency range. In SD125 model, you can select VHF and UHF band only.

5. CHANNEL DATA CONFIGURATION

You can configure channel data up to 16.

No.	Step(KHz)	RX Freq(MHz)	TX Freq(MHz)	Band Width	TX Power	HangOn
1	6.25	470.02500	470.02500	Wide	High	0
2	5.00	470.02500	470.02500	Narrow	Low	1
3	2.50	480.02500		Wide	High	0
4	6.25					
5	6.25					
6	6.25					
7	6.25					
8	6.25					
9	6.25					
10	6.25					
11	6.25					
12	6.25					
13	6.25					
14	6.25					
15	6.25					
16	6.25					

Figure 9 Channel Data Window

(1) Step: this means the reference frequency. You can select a reference frequency(6.25, 5.00, 2.50 KHz) before creating a channel. Press enter key or double click to change it. RX frequency or TX frequency can be divided by this reference frequency.

(2) RX Freq and TX Freq: you should input a frequency here to create a channel. Press enter key or double click to input a frequency. You can also use numeric keys. Press delete key in RX Freq cell to delete a specific channel. The TX frequency will only be deleted if you press delete key in TX Freq cell. The channel becomes RX-only channel in this case.

(3) Band Width: you can choose between 'Wide' and 'Narrow'. Press enter key or double click to change it.

(4) TX Power: you can choose between 'High' and 'Low'. Press enter key or double click to change it.

(5) HangOn: you can input this value 0 to 5. The combo box will be appeared if you press enter key or double click here. Select a value this combo box as you wish.

6. TOOLBAR FUNCTIONS

Figure 10 Toolbar Icons

(1) New File

Programmer initializes the current setting. All data will be cleared and changed to the default value.

(2) Open File

Programmer opens the saved file. You can know the model and band information as a figure below.

Figure 11 Model and Band Information

(3) Save File

Programmer saves the current setting to a specific file.

(4) Print

You can print the current setting. The print driver should be installed.

(5) Write

Programmer saves the current setting and sends data to the radio. The next window will be appeared if you click write icon.

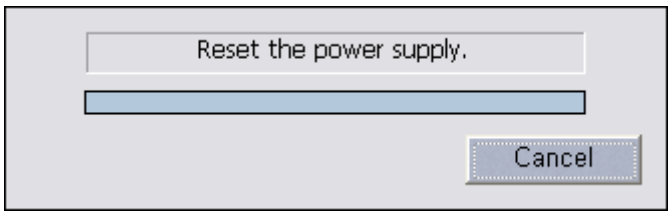


Figure 12 Program Progress Window

First of all, you check if COM port is configured correctly and the program cable is connected well. Reset the power supply to start program. You can expect how long it will take to finish program through this window. Programmer will be showed error messages if some problems occur.

(6) Read

Programmer reads data from the radio and shows it. The current setting will be cleared. The process of reading operation is same with write.

(7) Squelch

The next window will be appeared if you click squelch icon.

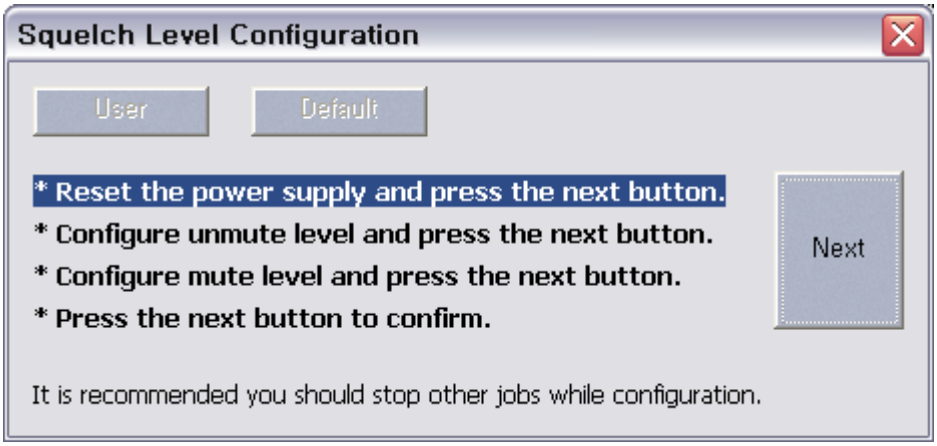
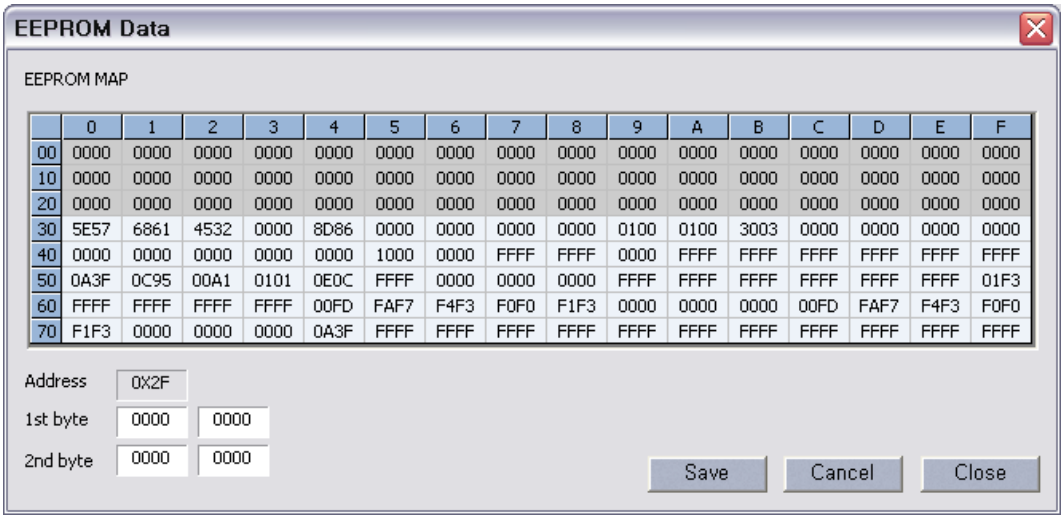


Figure 13 Squelch Level Configuration Window

You can configure the squelch level through this window(You should use squelch program cable, TAC-101D instead of program cable, ACC-2125). Click user button if you want to configure the squelch level manually. Click default button if you want the radio to keep the default squelch value. You just follow the sentence blinking and click the next button. Please make sure that the squelch cable is connected not the program cable.

(8) EEPROM

You can see the current EEPROM status and edit it directly. The next window will be appeared if you click EEPROM icon.



	0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F
00	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000
10	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000
20	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000
30	5E57	6861	4532	0000	8D86	0000	0000	0000	0000	0100	0100	3003	0000	0000	0000	0000
40	0000	0000	0000	0000	0000	1000	0000	FFFF	FFFF	0000	FFFF	FFFF	FFFF	FFFF	FFFF	FFFF
50	0A3F	0C95	00A1	0101	0E0C	FFFF	0000	0000	0000	FFFF	FFFF	FFFF	FFFF	FFFF	FFFF	01F3
60	FFFF	FFFF	FFFF	FFFF	00FD	FAF7	F4F3	F0F0	F1F3	0000	0000	0000	00FD	FAF7	F4F3	F0F0
70	F1F3	0000	0000	0000	0A3F	FFFF	FFFF	FFFF	FFFF	FFFF	FFFF	FFFF	FFFF	FFFF	FFFF	FFFF

Figure 14 EEPROM Window

- Save Button: programmer saves values you edited.
- Cancel Button: programmer returns edited values to original values.
- Close Button: programmer closes this window without save.

7. OPTIONS

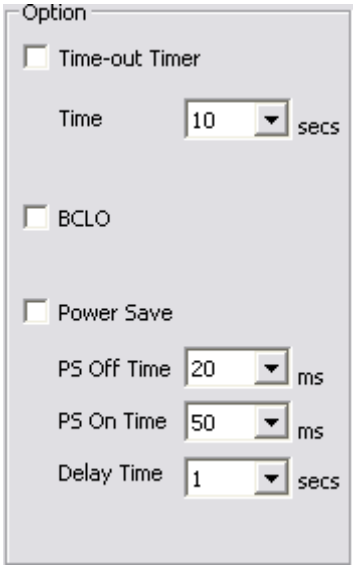


Figure 15 Options

(1) Time-out Timer: Time-out Timer will be activated if you check this option. You can also configure time.

(2) BCLO(Busy Channel Lock Out): BCLO function will be activated if you check this option.

(3) Power Save: you can configure the values related with power save function. PS OFF Time, PS ON Time and Delay Time.

8. SQUELCH TUNING

(1) Manual Tuning

You can configure mute and unmute point in S band. You can increase or decrease these values by pressing 'Page Up' and 'Page Down' button.

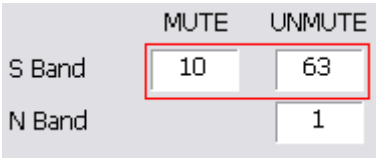


Figure 16 Squelch Manual Tuning: S Band Values

You can also set unmute point in N band. This is the difference value from S bans unmute value in this case. For example, N band unmute value is 64 if S band unmute value is 63 and you set N Band unmute value to 1.

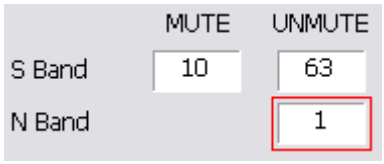
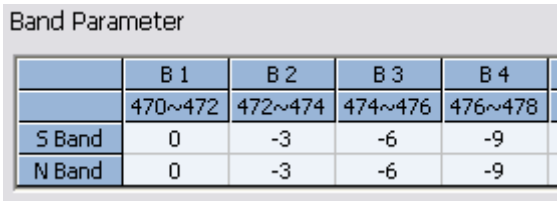


Figure 17 Squelch Manual Tuning: N Band Value

You can also set the difference value in a specific frequency range. B1 always indicates 0 because this is the point of reference. This reference is decided by the above job. You can increase or decrease these values by pressing 'Page Up' and 'Page Down' button in like manner above.



	B 1	B 2	B 3	B 4
	470~472	472~474	474~476	476~478
S Band	0	-3	-6	-9
N Band	0	-3	-6	-9

Figure 18 Squelch Manual Tuning by Frequency

(2) Auto Tuning

First of all, you should connect the transceiver to HP8920. The equipment setup is as follows.

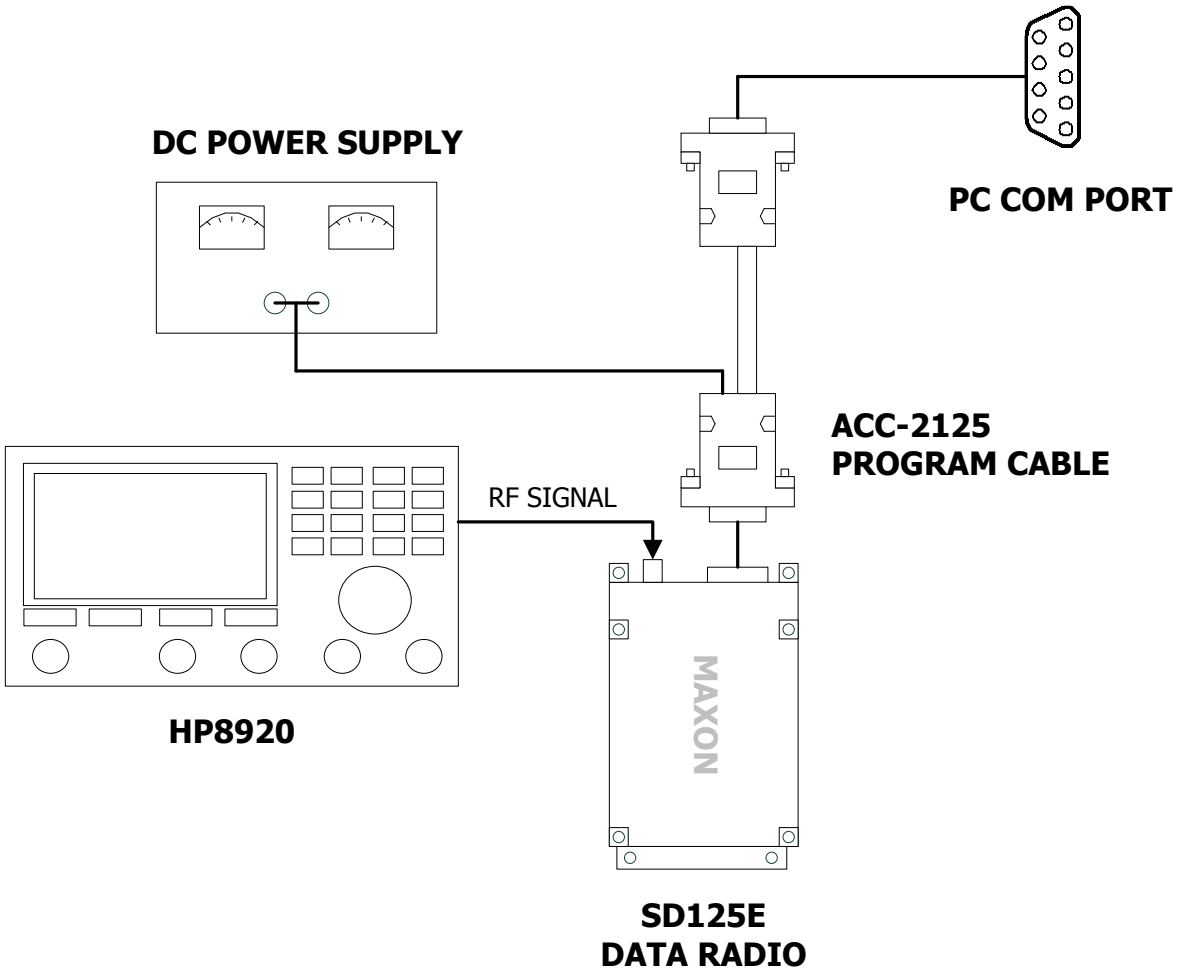


Figure 19 Equipment Setup for Squelch Auto Tuning

Press start button to start auto tuning process. HP8920 and the transceiver should be turned on. The status window shows the tuning progress.

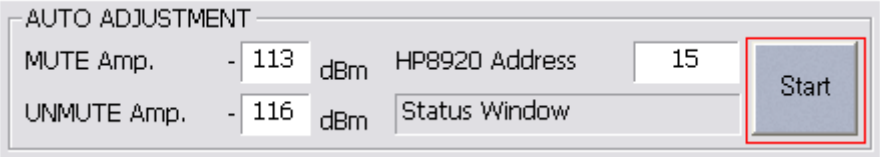


Figure 20 Squelch Auto Tuning Interface