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RPS-9000 Programming Software for the TYT TH-9000

TH-	9000 Program	nmer - Th-9	1000 Sample																				- 0 - ×
<u>F</u> ile	ile £dit ⊊ommunications ≨ettings ∭indow Help																						
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1	Th-9000 Sar	mple ×	🎎 тн-9000	Untitled4	🎎 TH-9000	0 Untitled5																	
	Receive Frequency	Transmit Frequency	Offset Frequence	Offset Direction	Channel Spacing	Name	Tone Mode	CTCSS	Rx CTCSS	DCS	Rx DCS	DCS Polarity	Optional Signaling	Optiona Code	Squeich Mode	Tx Power	Skip	Step	Scrambler Switch	Busy Channel Lockout	Compander		Comment
0	136.00084	136.000		Simplex	25 kHz		None	88.5 Hz	88.5 Hz	023	023	Both N	Off	1	Carrier	High		12.5 kHz		Off			7
1	136.00625	136.006		Simplex	25 kHz		None	88.5 Hz	88.5 Hz	023	023	Both N	Off	1	Carrier	High		12.5 kHz		Off		· ·	_ ·
2	136.01250	136.012		Simplex	25 kHz		None	88.5 Hz										kHz		Off			
3	136.01875	136.018		Simplex	20 KHz		None	88.5 Hz		M	om	orv	Chan	noll	Funct	lions		kHz		Off		-	
4	136.02500 136.03125	136.025		Simplex Simplex	25 kHz 25 kHz		None None	88.5 Hz 88.5 Hz		1.4	CIII	UI y			unc	IUIIS		kHz kHz		Off			
6	136.03720	136.037		Simplex	25 kHz		None	88.5 Hz					(left to	right)				kHz		91			
7	136.04375	136.0437		Simplex	25 kHz		None	88.5 Hz			_			D00 /				kHz		Off			
8	136.05000	136.050		Simplex	25 kHz		None	88.5 Hz	Red	ceive	Free	queno	су	DCSI	Polarity	y		412		Off			
9	136.05625	136.0563	5	Simplex	25 kHz		None	88.5 Hz						0				kHz		Off			
10	136.06250	13		Ŧ	Z		None	88.5 Hz	Ira	nsmi	t Fre	equen	ісу	Optio	nal Sig	gnaling	5	kHz		Off			
11 12	136.06875	-13 N	emo	ry Typ)es 💾	-	None	88.5 Hz	04					Outin		al a		kHz		Off			
12	144.52000			o right)		-	None	88.5 Hz		ыегг	requ	ency		Οριιο	nal Co	ue		7		Off			
14	144.53250	14	(ieit t	o rigiti)	5		None	88.5 Hz	Off	set D	iroot	ion		Caulo		da		2		Off			
15	144.54500	14 N	1emori	00	z		None	88.5 Hz		set D	neci	.1011		Sque	ch Mo	Jue		z		Off			
16	144.55750	14	ICHION	03	2		None	88.5 Hz	Ch	nno	I Sn	acing		Tx Po	wor			2		Off			
17	144.57000	14	imit M	emories	s ²		None	88.5 Hz		anne	i Sha	acing		IXFU	wei			2		Off			
18	144.58250	14		cinones	7 F		None	88.5 Hz	Nai	mo				Skip				2		Off			
19 20	144.59500 144.60750	14 V	FO Ch	annels	2		None None	88.5 Hz 88.5 Hz	Inal	ne				Skip				2		Off			
20	144.62000	14	1 0 011	annioio	Ľ.		None	88.5 Hz	Ton	e Mo	ahe			Step				2		Off			
22	144.63250	144.6325	0	Simplex	25 kHz		None	88.5 Hz			Juc			otep				2		Off			
23	144.64500	144.645		Simplex	25 kHz		None	88.5 Hz	CT(CSS				Scran	hbler S	Switch		z		Off			
24	144.65750	144.67		Simplex	25 kHz		None	88.5 Hz		000				ocrui		Junicon		2		Off			
25	144.67000	144 TU	10 Memories 🖌 V	Simplex	25 kHz		None	88.5 Hz	Rx	CTC	SS			Busy	Chanr	nel Lo	ckou	t 🛀		Off			
Ready									DC	S				Comr	ander								CAP NUM SCRL
										-													
									Rx	DCS				Comr	nents								

The RPS-9000 Programmer is designed to give you the ease and convenience of programming the memories and set menu options of your radio from your PC.

The Programmer works for the VHF, UHF and 220MHz radios. Each file created will be for a specific band just as the radios operate in one band.

Memory Channels Include:

- 200 Memory Channels
- 2 Limit Channels (1 pair)
- 1 VFO Channel

Other Menu Item Categories Include:

- Common Settings 1
- Common Settings 2
- DTMF
- 2Tone

The Programmer Is for so Much More than Just Memory Management. With the RPS-9000 Programmer you can begin a new "factory fresh" file into which frequencies and option settings are entered. Or, you can read from the radio, store these details on your computer and make changes. Then, with minimal button pushing, send the new configuration back to the radio.

The Programmer allows you to create and save as many files as you want for your radio. Files can even be shared between users via email or the Internet. Any RT Systems Version 4.50 program can open a file from any other RT Systems Version 4.50 programmer... even from a different radio.

Managing all the options of this great little radio becomes easy with the Programmer. The cut, copy, paste and insert features of the Programmer make channel management easier than ever.

Open more than one file at a time. Memory channel information can be copied from one file to another within the Programmer making it really easy to set up a new file.



Hardware Requirements:

A PC running Windows XP, Vista, Windows 7 (32 or 64 bit) or Windows 8 (full version). A CD drive (local or network) for installation. A free USB port and RT Systems USB-29A interface cable. The cable connects the radio to the computer from the USB port on the computer to the data jack on the front of the radio.



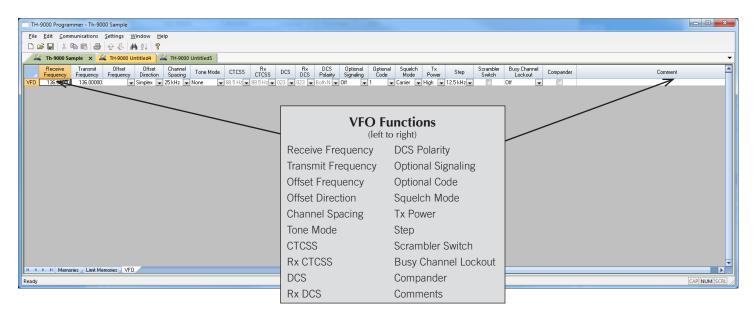


RPS-9000 Programming Software **Memory Types**

TH-9000 Programmer - Th-9000 Sample *					. C X
Eile Edit Communications Settings Window Help					
L C C C C C C C C C C C C C C C C C C C					•
Piecewer Transmit Offset Channel Name Tone Mode CTCSS FR PA 144.5942 144.5942 Nimelex 24.141 None 88.5142	SS DCS DCS Polarity Signaling	Code Mode Power Skip Step Carrier High 💽 5 kHz	Scrambler Busy Channel Com Switch Lockout Com Off I	Dander Com	ment
		lemories o right)			
	Receive Frequency	DCS Polarity			
	Transmit Frequency	Optional Signaling			
	Offset Frequency	Optional Code			
	Offset Direction	Squelch Mode			
	Channel Spacing	Tx Power			
	Name	Skip			
	Tone Mode	Step			
	CTCSS	Scrambler Switch			
	Rx CTCSS	Busy Channel Lockout			-
K K K K	DCS	Compander		CAD	NUM SCRL
Ready	Rx DCS	Comments		LAP	INOMISCRE

Limit Memories

Limit Memories are used by the radio for Program Scan. Program the same details for Limit Memories as for regular memory channels.



VFO

The program makes available the same VFO's as in the radio (usually one per band). Remember this is not a real memory channel since the details are lost as soon as you tune the radio manually. There is no one button recall for these. You do not need to program into VFO before programming details into a memory channel. This channel will be band specific for your 144 / 440 / 220MHz radio.





RPS-9000 Programming Software **Radio Option Setting Screens**

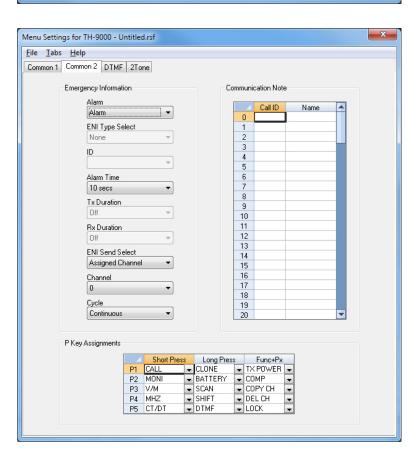
ile <u>T</u> abs <u>H</u> elp		
Common 1 Common 2 DTMF 2Tone		
Power On Message	Auto Power Off	Squelch Key Function
Code (Power On Password)	Backlight Color Blue	Squelch Level
	Backlight Brightness	Tail Eliminator ☐ Off
🔽 Веер	Display Mode Frequency 🔹	Time Out Timer 3 mins ▼
Channel Lock	Display Type Memory 🔹	Tone Burst 1750 Hz 🗸
Eliminate Squelch Tail	Memory Channel	Tx Power 65 Watts ▼
Lock	Scan Resume Time 🔻	
Scan Mode		
🔽 Enable	🔽 Enter Tone	
Priority Channel Select	Revert Channel Selected 🔹	Dropout Delay 3.0 secs 👻
Priority Channel 1	Look Back Time A 1.5 secs 🔹	Dwell 3.0 secs 🔹
Priority Channel 2	Look Back Time B 2.5 secs	

Common 1 and 2

Use these screens to customize other set menu features of the radio. Check boxes toggle features on or off, drop down menus list all selections and blank boxes for personalized entry add to the ease of setting up your radio exactly like you want it.

The entries on the Settings screens are made for you to "Set and Forget". Once settings are customized, you are prompted to save before exiting. The saved settings will be there every time you create a new frequency file.

The settings are not frequency dependant. One settings file can be used with any frequency file.





RPS-9000 Programming Software **Radio Option Setting Screens**

Menu Settings for TH-9000 - L	Intitled.rsf			×
<u>File Tabs H</u> elp				
Common 1 Common 2 DTMF	2Tone			
	21010			
1st Digit	Group Code		Number	
200 ms 🔻	A 🔻	M1		
Auto Reset	Interval Character	M2		
10.0 secs 🔻	× •	M3		
Decode Response	PTT ID Delay	M4 M5		
None 👻	Off 🔹	MG		
Encode Delay	Speed	M7		
200 ms	50 ms -	M8		
		М9		
Encode Preload		M10		
500 ms 🔻	ANI 📃	M11		
	📝 Side Tone	M12		
		M13 M14		
		M14		
SelfID		M16		
123				
120			Use E for * and F for #	
DTT ID Chest (DOT)				
PTT ID Start (BOT)				
PTT ID End (EOT)				

DTMF

Enter DTMF memory details and customize options for this function of the radio.

Menu Setting	is for TH-9	000 - Untitl	ed.rsf		
<u>F</u> ile <u>T</u> abs	<u>H</u> elp				
Common 1	Common 2	DTMF 2T	one		
			1		
	Encode				
					Tone Duration
	2	1st Tone		Name	
	1	321.7	928.1		1st 0.5 secs 👻
	2				
	4				2nd 0.5 secs 🔻
	5				Long 1.0 secs 🔻
	6				Long 1.0 secs V
	7				
	8				Gap Time
	9 10				1000 secs 🔻
	11				Auto Reset
	12				10.0 secs 🔻
	13				
	14				V Side Tone
	15				
	16				
	Decode				
	000000				Tone Frequency
					Tone Frequency
		Call Form	at A-B	•	A 321.7
					B 928.1
	Deco	ding Respon	se None	•	C 626.5 D 2043.8
					0 2043.0

2Tone

Set up options for 2Tone Paging.



RPS-9000 Programming Software **Preferences – Version 4.50**

Preferences			
Grid Display Memory Defaults For	nt Other		
Freeze 1	Mark the columns	to hide.	
	Column	Hide 🔄	
Alternate row	Transmit Frequency		
Alternate row	Offset Frequency		
1 Row1	Offset Direction		
2 Row 2	Name		
3 Row 3	Tone Mode		
4 Row 4	CTCSS		
	Px CTCSS		
Fore Back	DCS		
	Tx Power		
	Busy Channel Lockout		
Use Combo for Check box	Skip Clock Shift		
Language:	Battery Save Comment		
English 👻	Comment		
		-	
	ОК	Cancel	Apply

Grid Display

- RT Systems now available in English, French, German, Italian, Spanish, Portuguese and Japanese.
- Set colors for text (Fore) or background (Back) of alternate rows for easier viewing across the columns.
- Freeze columns to keep information on the screen as you scroll to the right of the page.
- Hide columns you don't use. Customize your printout: hidden columns do not print.
- Use Combo for Check boxes changes the grid to eliminate check box selections that are disabled on some systems.

Preferences			
Grid Display Memory Defaults Font Other			
	Offset Freque	ency Defaults	
✓ Open last file when starting programmer.	HF	100 kHz 🔹	
 Check ShowName Automatically Convert Split offsets to standard Plus or 	6m	500 kHz 🔹	
Minus when avaliable.	2m	600 kHz 👻	
Disable CTCSS, DCS and other Tone columns according to the Tone Mode	1.25m	1.60 MHz 🔹	
selection.	70cm	5.00 MHz 🔹	
Add and Remove Offsets Offset Pick an offset frequency 1 100 kHz 2 500 kHz 3 600 kHz 4 1.00 MHz To add an offset double click "END OF	n the list.		
	ОК	Cancel	Apply

Memory Defaults

• Set options to control auto fill information for memory channel entries.



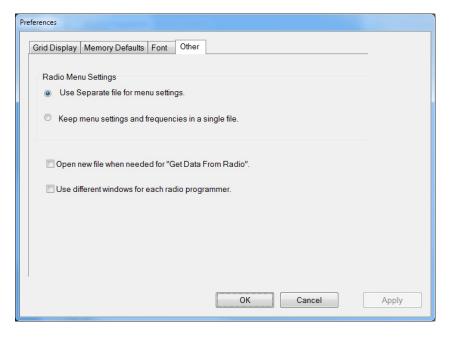
Preferences	A Comment of the second s
Grid Display Me	emory Defaults Font Other
Eont MS Sans S MS Sar MS Ser Ø MS UIC Ø MV Boli Ø MVriad Ø Mvriad Ø Mvriad Ø Nvriad Ø Narkisi Ø Niacara Ø Niacara	In Serif if Sothic ra i Pro Pro Cond Pro Cond Pro Pro Cond Pro Pro Pro Pro Pro Pro Pro Pro
	OK Cancel Apply

Font

• Set options to control the font in the column headers of the channel entry screens. Select any font and font size available on your computer.

Other

- Set options to control how the programmer handles the global Radio Menu Settings file.
 - Separate (default) handles the global settings of the radio in a "set and forget" fashion. Once you set these up and save the file you won't have to reset them for a new frequency file.
 - Together as one gives you the ability to create files that are complete with frequencies and customized global settings. In this mode, each file begins with factory defaults for every option of the radio.
- Check "Get data from Radio" new file option to prevent data loss when you read from your radio into the programmer.
- Check "different window" option to make the programmer for a different radio run in completely separate window rather than in a separate tab of the same window.





Click here to learn more about using Preferences to customize your radio programming experience.