

The ADMS-M400 Programmer is designed to give you the ease and convenience of programming the memories and set menu options of your FTM-400 radio from your PC.

#### Memory Channels Include:

- 500 Band A Memory Channels
- 500 Band B Memory Channels
- 18 Band A Limit Memories
- 18 Band B Limit Memories
- 5 Band A Call Channels
- 5 Band B Call Channels

#### Other Menu Item Categories Include:

- Common 1 and 2
- DTMF/Internet
- APRS
- APRS Beacon
- Group Messaging

***The Programmer Is for so Much More than Just Memory Management.***

With the ADMS-M400 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 to a SD Card to transfer 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 radio becomes easy with the Programmer. The cut, copy, paste and insert features of the Programmer make channel management easier than ever.

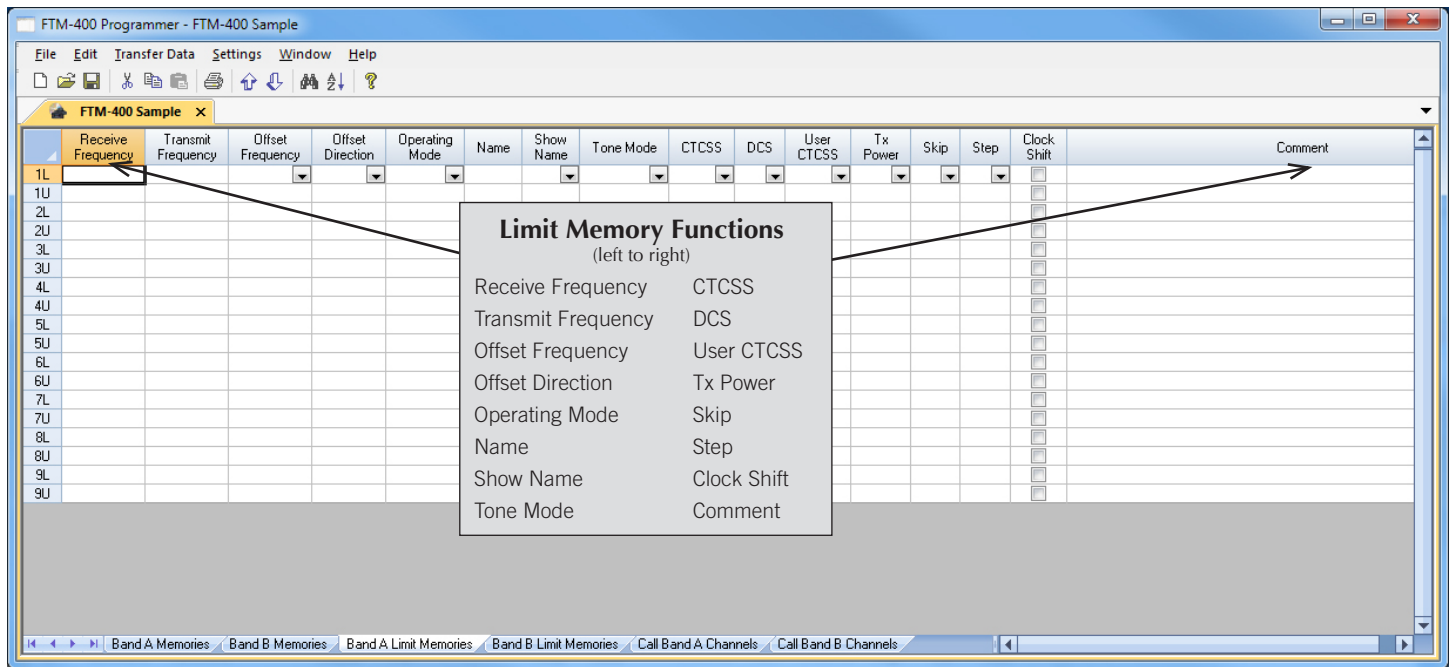
Open more than one file at a time. Memory channel information can be copied from one file to another within the Programmer making it really easy to set up a new file.



#### Hardware Requirements:

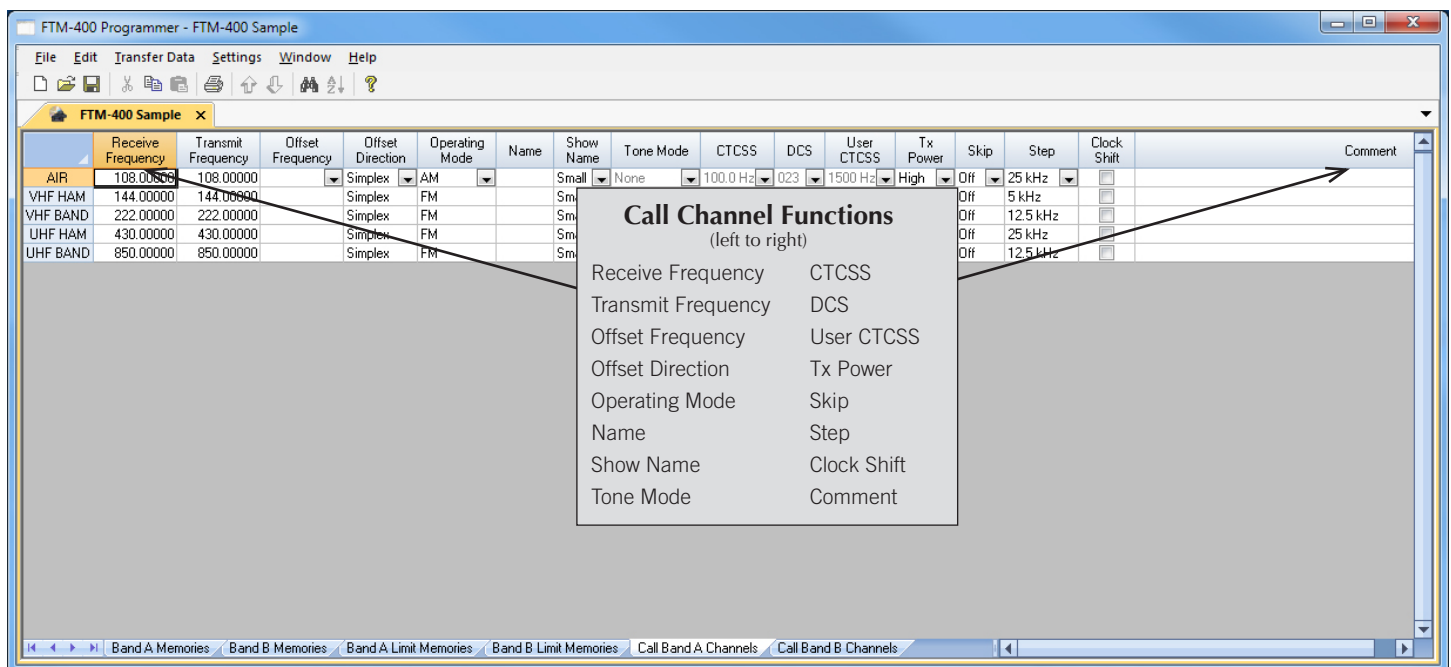
A PC running Windows XP, Vista, Windows 7 (32 or 64 bit) or Windows 8 or Win 8.1 (full version). A CD drive (local or network) for installation. A micro SD Card and reader.





#### A / B Band Limit Memories

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



#### Call A / B Band Channels

Home/Call channels are special memories accessed through one button recall on the radio. These channels are preprogrammed in the radio and while the frequency can be changed to another within the band, they cannot be left blank.

**Menu Settings for FTM-400 - Untitled.rsf**

File | Tabs | Help

Common 1 | Common 2 | DTMF / Internet | APRS | APRS Beacon | Group Messaging

**Config**

Band A

- ☒ Auto Repeater Shift
- Rx Coverage: Normal

Band B

- ☒ Auto Repeater Shift
- Rx Coverage: Normal

**Mic Keys**

P1: Sqr Off

P2: Home

P3: D\_X

P4: Tx Power

**Touch Keys**

V/M

SQL

MUTE

SCOPE

**Display**

A Band Scope: Wide

B Band Scope: Wide

Altitude Scale: 5 miles

Clock/Timer Mode: Clock

Color: Gray

Compass: North Up

LCD Brightness: Max

LCD Contrast: +3

Target Location: Compass

Time/Voltage Display: Time

**Select**

- ☐ Altitude
- ☐ Timer/Clock
- ☐ GPS Info

**Option**

USB Camera Size: 320 x 240

USB Camera Quality: Normal

Call Sign:

### 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.

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File | Tabs | Help

Common 1 | Common 2 | DTMF / Internet | APRS | APRS Beacon | Group Messaging

**Scan**

Band A

- Memory Scan: All Memory
- Scan Resume: Busy
- Dual Watch Stop: Auto

Band B

- Memory Scan: All Memory
- Scan Resume: Busy
- Dual Watch Stop: Auto

**Signaling**

Band A

- Squelch: Level 1
- SQL Expansion: ☐
- Bell Ringer: Off
- Weather Alert: ☐
- Active Channel: 162.550 MHz

Band B

- Squelch: Level 1
- SQL Expansion: ☐
- Bell Ringer: Off
- Weather Alert: ☐
- Active Channel: 162.550 MHz

**Pager**

Receive Codes

05 - 77.0 Hz

47 - 233.6 Hz

Transmit Codes

05 - 77.0 Hz

47 - 233.6 Hz

**Tx / Rx**

Digital

- ☒ Location Service
- Tx Mode: Digi Normal (C)
- Squelch Type: Off
- Squelch Code: 1
- Pop Up Time: BND 10 secs

**Audio**

Mic Gain: Normal

Sub Band Mute: Off

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Common 1 | Common 2 | DTMF / Internet | APRS | APRS Beacon | Group Messaging

**DTMF Settings**

Auto Dialer: Manual

Band A Channel: 1

Band B Channel: 1

**Code**

Code
1
2
3
4
5
6
7
8
10

**Internet (Wires) Settings**

Rpt/Wires Freq: Manual

Search Setup: History

Preset Frequency: 144.620

**Category Tag**

Category Tag
1
2
3
4
5

### DTMF/ Internet

Enter DTMF and Internet details to customize options for these functions of the radio.

Menu Settings for FTM-400 - Untitled.rsf

File Tabs Help

Common 1 Common 2 DTMF / Internet APRS APRS Beacon Group Messaging

My Callsign:

APRS Modem On: ☐ Tx Squelch: ☒

My Symbols:

- 1 /> Car
- 2 /R Rec Vehicle
- 3 /- House QTH (VHF)
- 4 YY User Symbol

Position Comment:

Message Popup: 10 seconds

☒ Tx Message Ringer

APRS Speed: 1200 bps

APRS Band: B-Band Fix

APRS Squelch: Rx Band

APRS Compass: Heading Up

APRS Mute: Off

Latitude: N 00°00.00' Longitude: E 000°00.00'

Digi Path:

- Off
- Wide1: -1 Wide2: -1

Message Reply:

Enable: ☐ Callsign:

Text:

Comport Speed: 9600 bps

Waypoint Format: NMEA3

Comport Output: Off (Camera)

Waypoint Filter: ALL

Tx Delay: 250 ms

Message Group:

Set	Message Text
1	G1 ALL*****
2	G2 CG*****
3	G3 QST*****
4	G4 YAESU*****
5	G5
6	G6
7	B1 BLN*****
8	B2 BLN?
9	B3 BLN?

Popup:

Color
Beacon Off
Mobile Off
Obj/Item Off
Call Ringer Off
Range Ringer Off
Message Off
Grip/Bull Off
My Packet Off

## APRS and APRS Beacon

Use these screens to customize APRS options 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 APRS options just like you want them.

Menu Settings for FTM-400 - Untitled.rsf

File Tabs Help

Common 1 Common 2 DTMF / Internet APRS APRS Beacon Group Messaging

☒ Tx Beacon Ringer

☒ Rx Beacon Ringer

☐ My Packet Ringer

☐ Message Voice Ringer

Beacon TX: Off

Beacon Interval: 5 minutes

Low Speed: 3 km/h(mi/h)

Smart Beacon Type: Type 1

Beacon Popup: 10 seconds

☐ My Packet Popup

☒ Proportional

☒ Decay

Smart Beacon Setting:

Type 1	Type 2	Type 3	Limits
Low Speed 5 mph	5 mph	5 mph	2 ~ 30
High Speed 70 mph	70 mph	70 mph	3 ~ 70
Slow Rate 30 min	30 min	30 min	1 ~ 100
Fast Rate 120 sec	120 sec	120 sec	10 ~ 180
Turn Angle 28 deg	28 deg	28 deg	5 ~ 90
Turn Slope 26	26	26	1 ~ 255
Turn Time 30 sec	30 sec	30 sec	5 ~ 180

Beacon Filter:

- ☒ Mic E
- ☒ Position
- ☒ Weather
- ☒ Object
- ☒ Item
- ☒ Status
- ☐ Other
- ☐ ALTNet

Range Limit: Off

Rate Limit: 30 seconds

Range Ringer: Off

Status Text Tx Rate: 1/1

Units:

- Altimeter: feet
- Distance: mile
- Position: DD MMSS'
- Speed: mph
- Temp: F
- Rain: inch
- Wind: mph
- Barometer: mb

Ambiguity: Off

☒ Tx Speed/Course

☒ Tx Altitude

Beacon Status Text:

Set	Beacon Status Text	Additional
1		None
2		None
3		None
4		None
5		None

Menu Settings for FTM-400 - Untitled.rsf

File Tabs Help

Common 1 Common 2 DTMF / Internet APRS APRS Beacon Group Messaging

Groups

Selected Group:

GROUP 01

Add Group Rename Group

Delete Group:

Call Sign
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24

Insert

Delete

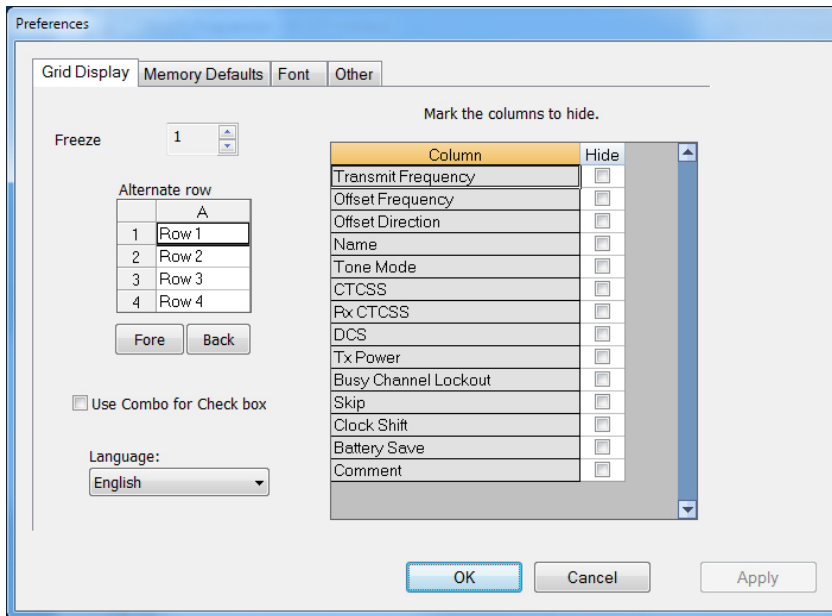
Clear All

Save Group

Message
1
2
3
4
5
6
7
8
9
10

### Group Messaging

Set options and messages for Group Monitor functions.

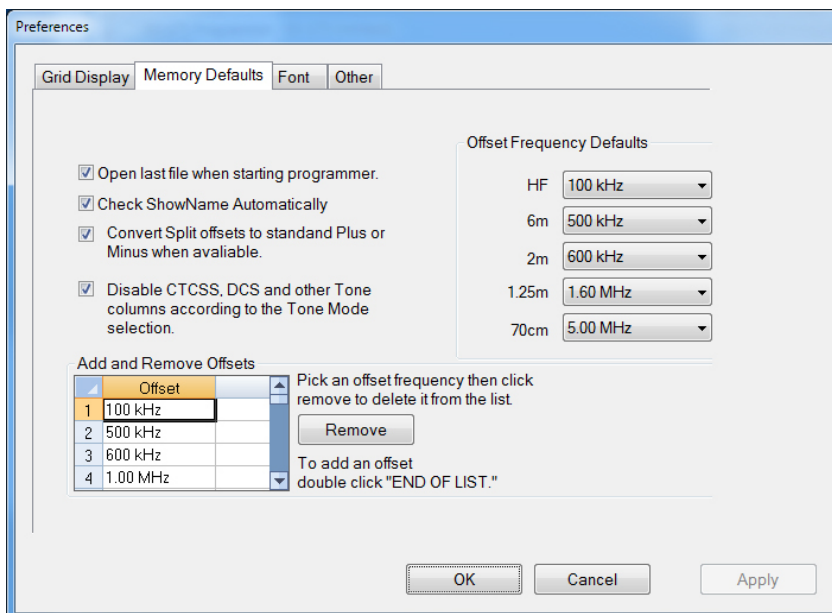


The screenshot shows the 'Grid Display' tab of the Preferences dialog. It includes a 'Freeze' spinner set to 1, an 'Alternate row' table with rows 1-4, 'Fore' and 'Back' buttons, a 'Use Combo for Check box' checkbox, a 'Language' dropdown set to 'English', and a table to 'Mark the columns to hide'.

Column	Hide
Transmit Frequency	<input type="checkbox"/>
Offset Frequency	<input type="checkbox"/>
Offset Direction	<input type="checkbox"/>
Name	<input type="checkbox"/>
Tone Mode	<input type="checkbox"/>
CTCSS	<input type="checkbox"/>
Rx CTCSS	<input type="checkbox"/>
DCS	<input type="checkbox"/>
Tx Power	<input type="checkbox"/>
Busy Channel Lockout	<input type="checkbox"/>
Skip	<input type="checkbox"/>
Clock Shift	<input type="checkbox"/>
Battery Save	<input type="checkbox"/>
Comment	<input type="checkbox"/>

## 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 print-out: hidden columns do not print.
- Use Combo for Check boxes – changes the grid to eliminate check box selections that are disabled on some systems.

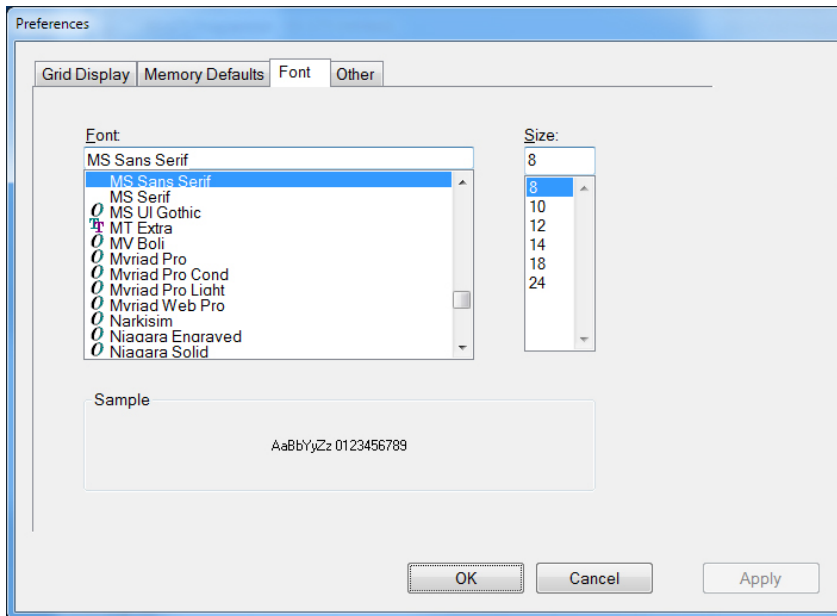


The screenshot shows the 'Memory Defaults' tab of the Preferences dialog. It includes checkboxes for 'Open last file when starting programmer', 'Check ShowName Automatically', 'Convert Split offsets to standard Plus or Minus when available', and 'Disable CTCSS, DCS and other Tone columns according to the Tone Mode selection'. It also features 'Offset Frequency Defaults' dropdowns for HF, 6m, 2m, 1.25m, and 70cm bands, and an 'Add and Remove Offsets' table.

Offset
1 100 kHz
2 500 kHz
3 600 kHz
4 1.00 MHz

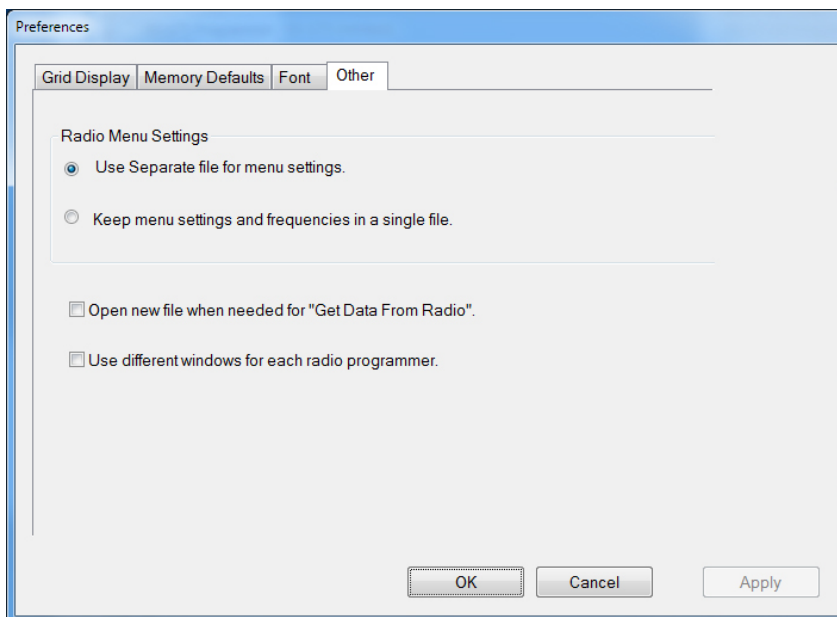
## Memory Defaults

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



#### 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.