

Using Tactical Mode on the Avmap G5 GPS

The Avmap G5 with software version 1.10.50R or later includes a tactical station display mode. This mode allows you to display information regarding a specific APRS target (typically a moving target) in the data boxes on the left side of the display

The tactical mode is available, but very limited when used with the Kenwood TM-D700 and TH-D7 transceivers and any other radio providing only NMEA 0183 \$GPWPL sentences. However, when used with the Kenwood TM-D710 outputting the proprietary \$PKNWPL data sentence, an extensive amount of information is available for display.

The D700 and D7 provide the following information for display:

- Target ID (typically callsign)
- Target Latitude and Longitude.

The D710 provides the following information, any three items of which can be selectively displayed in the three data windows on the G5.

- Target ID
- Target Latitude and Longitude
- Target Speed
- Target Course
- Target Altitude.

Setup Instructions

These instructions assume that the transceiver and G5 are already operating in normal APRS mode.

Transceiver:

No additional setup is required for the TM-D700 and TH-D7.

On the TM-D710,

1. Select Menu ([F][Tune])
2. Use the tuning knob to select APRS, press [Tune]
3. Use the tuning knob to select WAYPOINT (603)
4. Press [Tune] twice to select FORMAT
5. Use the tuning knob to select KENWOOD and press [Tune]
6. Press ESC

The TM-D710 will now output the Kenwood proprietary \$PKNWPL sentence rather than the standard NMEA 0183 \$GPWPL sentence.

Note: If you set the D710 to output the &GPWPL sentence, it will appear the same as a D700 or D7 on the G5.

Avmmap G5

In order to assure that you are working with new APRS data, containing the complete \$PKNWPL data string, you may want to delete the APRS folder, and allow it to be recreated with fresh data. This is unnecessary if you are using a D700 or D7, as no additional data will be input.

To delete the APRS folder,

1. Press the WHERE TO GO button
2. Select Contacts
3. Select the APRS folder
4. Select Delete Folder
5. Select Yes
6. Select X, Map

Allow time for new APRS data to be collected from the D710, note that the APRS folder may not be created and updated if you stay in the Contacts folder.

To select a target, (You may want to review stations in the Kenwood APRS station LIST to find a candidate moving target, or look for the red triangle in the Contacts APRS list.)

1. Press the WHERE TO GO button
2. Select Contacts
3. Select the APRS folder
4. Scroll through the list to find your desired target and select it
5. Select Set Target the START NAVIGATION page will be displayed, with the target ID at the top.
6. Press Set Target (the button will change to Reset Target)
7. Press the orange <- arrow. You will be returned to the APRS folder. Observe that there is a small red T by the ID of your selected target.
8. Press X twice, then press Map to return to the map.

The GO function and the tactical function are entirely independent. You can compute a course to your tactical target by pressing GO after step 6 above. Alternately, you can select an entirely different destination point for your route computation.

To display target information.

1. On the G5, press the Menu button
2. Select SETTINGS
3. Select Set Data Boxes
4. Using the <- and -> arrows select the data box to be changed
5. Using the ^ and v orange arrows, select list 4/4 (the fourth list has been added in this version.)

6. Select the target attribute to be displayed in this box.
7. Press OK
8. Repeat steps 3-7 to set additional data boxes.
Note: You can mix tactical and standard data within the three data boxes.
9. Select Map. The selected tactical data will be displayed in the data boxes.
Note: If you are using a D7 or D700, or certain information isn't available from the APRS station, tactical data other than ID and lat/lon will be displayed as "---".

To deselect a tactical target

1. Press the WHE4RE TO GO button
2. Press Contacts
3. Press APRS
4. Select the target
5. Press Reset Target
6. Press X

Note: It is not necessary to deselect a target in order to select a new target. Follow the instructions to Select a Target, and the new target will replace the old target.