

Setting up your Icom IC-E2820 & IC-E92 for GPS DVG mode operation.

This document explains how to set up GPS TX MODE (DV-G), not GPS-A, which will show your position on other D-Star transceivers & the APRS servers.

To set up your IC-E2820 & IC-E92D to use GPS (DPRS) mode you will need to create a checksum code to enter in the GPS message in the 2820 & the 92, this can be done by using the D-PRS Calculator created by Pete Lovell AE5PL.

To set up your IC-E2820 to send GPS Data (DV-G) you need to set the following parameters,

MENU > DV GPS >

GPS SENTENCE = RMC & GGA on, all others OFF

GPS TX = GPS (not GPS-A)

GPS AUTO TX = OFF (GPS data will be transmitted when you press your PTT)

GPS MESSAGE = (enter your checksum code created by the D-PRS calculator)

Exit the Menu's and then press the F button until DATA POSI G-WR GMR R-WR appears at the bottom of the display. Press DATA and the symbol G.D should appear on your screen. This activates the GPS data transmission when you press your PTT.

When your GPS is receiving a valid signal the GPS symbol will stop flashing(this can take some time). So on your 2820's display you should have GPS DVG & G.D showing for successful GPS data transmission.

To set up your IC-E92D,

MENU > DV SET MODE > GPS TX MODE = GPS > SENTENCE = RMC & GGA = ON, all others OFF.
> GPS AUTO TX = OFF

MENU > MESSAGE/POS > GPS > (enter your checksum code created by the D-PRS calculator)

On your 92's display you should see DV-G for successful GPS data transmission.

The Checksum code is unique to the callsign & the APRS symbol that you select in the D-PRS Calculator, for example the code below is what I use in my IC-E92D refers to G1ZRN M with the Rover symbol 🚗 as I'm usually walking with my dogs when using my 92.

LP MIKE DSTAR*37

^^ there are two spaces between the P & M

The code in my mobile 2820 🚗 (G1ZRN M) is

MV MIKE DSTAR*30

^^ two spaces between the V & M

and the code in my shack 2820 🏠

BN MIKE DSTAR*4A

^^ two spaces between the N & M

By setting my GPS TX MODE to GPS and not GPS-A all the above examples will be seen both on other 2820's & 92's (world-wide through the DStar network) and the APRS servers such as APRS.fi

With thanks to Gavin M1BXF for his help with the above.

73's de Mike G1ZRN

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