

# Setting Up Digital DMR APRS – D868 Radio v3

## Step One:

Setup a Channel for APRS

You must designate one of your channels as the default APRS Channel. This will be used for the Frequencies, Color Code

and Time Slot to use that matches the Repeater or Hotspot you are using.

Open this Channel's settings screen and select:

APRS Report to "ON"

APRS Report Channel to "1"

Channel Information Edit---1510

Channel Name: Finkenst 2-9

Receive Frequency: 438.45000  
Transmit Frequency: 430.85000

Channel Type: D-Digital  
Transmit Power: Low  
Band Width: 25K  
TX Permit: Always  
CH Scan List: OE8  
APRS Report: On  
APRS Report Channel: 1

TX Prohibit  
 Work Alone  
 Talk Around  
 Through Mode

Digital

Contact: TG9 lokal  
Radio ID: OE8VIK  
Color Code: 1  
Slot: Slot2  
Receive Group List: None  
Digital Encryption: Off  
Encryption Type: Normal Encryption

Simplex TDMA  
 TDMA Adaptive  
 Call Confirmation  
 Ranging

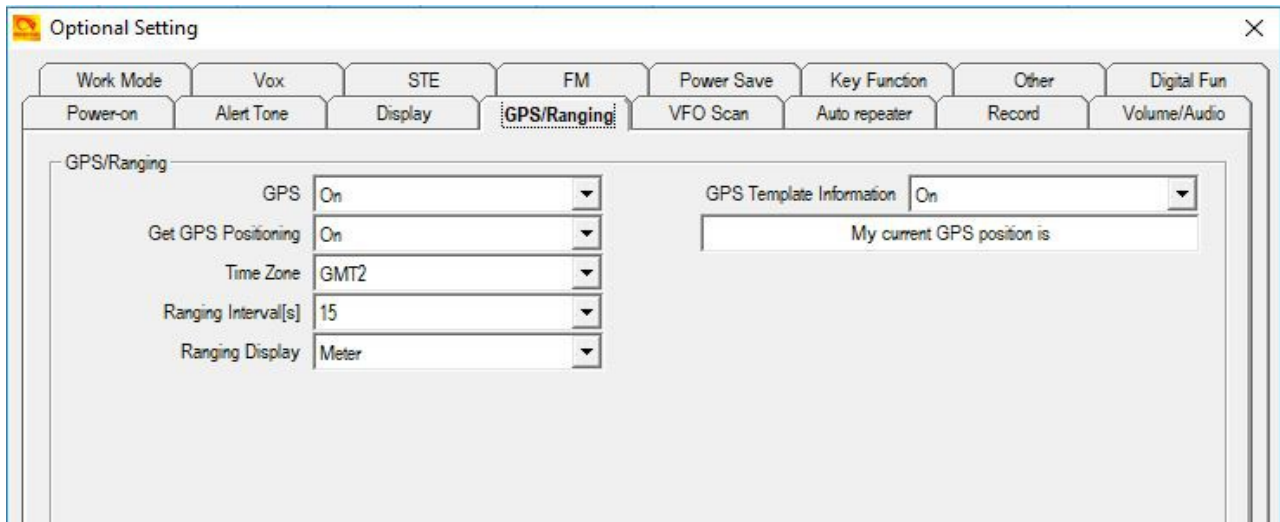
Click OK.

Repeat this procedure for each channel.

## Step Two:

Go to Optional Settings.  
Select GPS/Ranging tab.  
Select GPS On .

Select all settings as shown below.



## Step Three:

Setup Digital APRS Information Screen

At this screen you set your required settings:

1. Manual Tx Intervals
2. APRS Auto TX Intervals
3. Transmit Power set as High for Repeaters or Low for Hotspots
4. Fixed GPS Beacon (semantics on this is wrong it really means Fixed Beacon on or off)
  - a. This gets set as “Not Used” if you want to use the actual GPS data as the location, GPS must be on and have a satellite signal lock for APRS to send
  - b. This is set to “Used” to transmit as a fixed Beacon and it will use the “dd.mm.nn” settings you enter below instead of the GPS (good for testing with no GPS lock)
5. Current Location which will be used as an APRS Beacon
6. The Report Channels you want to use, in this case select Report Channel 1 as the Channel you set in Step One Above

7. Enter APRS Talk Group ( **UK is 24999** - USA is 310999 )
8. Call Type set to Private Call
9. Set Slot that you want to use typically this would match the Step One Channel settings

Digital APRS Information

Manual TX Intervals[s] 20

APRS Auto TX Intervals[s] 60

Transmit Power High

Fixed Location Beacon Off

Report Channel 1 Current Channel

Report Channel 2 Current Channel

Report Channel 3 Current Channel

Report Channel 4 Current Channel

Report Channel 5 Current Channel

Report Channel 6 Current Channel

Report Channel 7 Current Channel

Report Channel 8 Current Channel

APRS Talk Group 5057

Call Type Private Call

Slot Slot2

Latitude 52.99000

North or South Latitude N

Longitude 13.22000

Things E

OK Cancel

That's it!

## Step 4 Brandmeister

### [SelfCare settings](#)

Set Brand option to Chinese or Motorola

Set APRS Callsign to xxxxx-9

### **Set APRS Icon**

APRS Text – Your Name (Joe Smith UK)

If you do not have an account make one up.

APRS Text is also used for [Talker Alias](#)

Talker Alias (Your Name) gets displayed on Hytera, MD380 and other radios without the need of a Data Base in your radio.

[More info on sending Talker Alias](#)

## Step 5 Phoenix UK

For those getting to grips with GPS to APRS. There are a few different private talk groups you can send the data to which produce different behaviour on APRS.

RRS	&	Radio IDs:
5050	=	without SSID
5055	=	House QTH
5056	=	Camping
5057	=	walking with handheld radio
5058	=	boat
5059	=	car

Works on Repeaters and Hotspots

**This is for Phoenix UK ONLY** and will not work on (Brandmeister see step 4)